

LEA

CERAMICHE



S LIMTECH
3mm
3plus
5plus

Technical manual

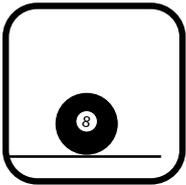
Slimtech tile is the result of the latest technology. It is produced in the 100x300 cm size with a thickness of 3 and 5 mm, using a porcelain stoneware mixture composed of top quality clay and raw materials. It is pressed using a force of 15.000 tons. Firing takes place in innovative and environmental-friendly kilns, fruit of Panariagroup's research activities and know-how.



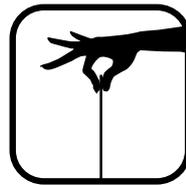
Resistant to stains and chemical agents



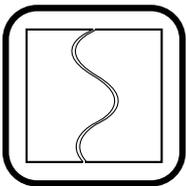
Record dimensions, up to 100x300 cm



Planar



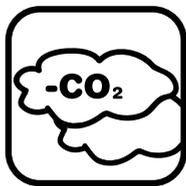
A slab only 3 or 5 mm thick



Easy to cut



Reliable



New technology, eco-friendly



Slimtech 3plus and 5plus are ideal for high-traffic areas



To easily renovate floors and walls



More sqm per shipment

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The information in this Technical Manual relating to the product is to be intended as official information provided by Lea Ceramiche.

As far as ancillary materials (adhesives, mats, etc.) are concerned, the indications provided are those of the relative manufacturers, that guarantee the technical characteristics of their products on the market.

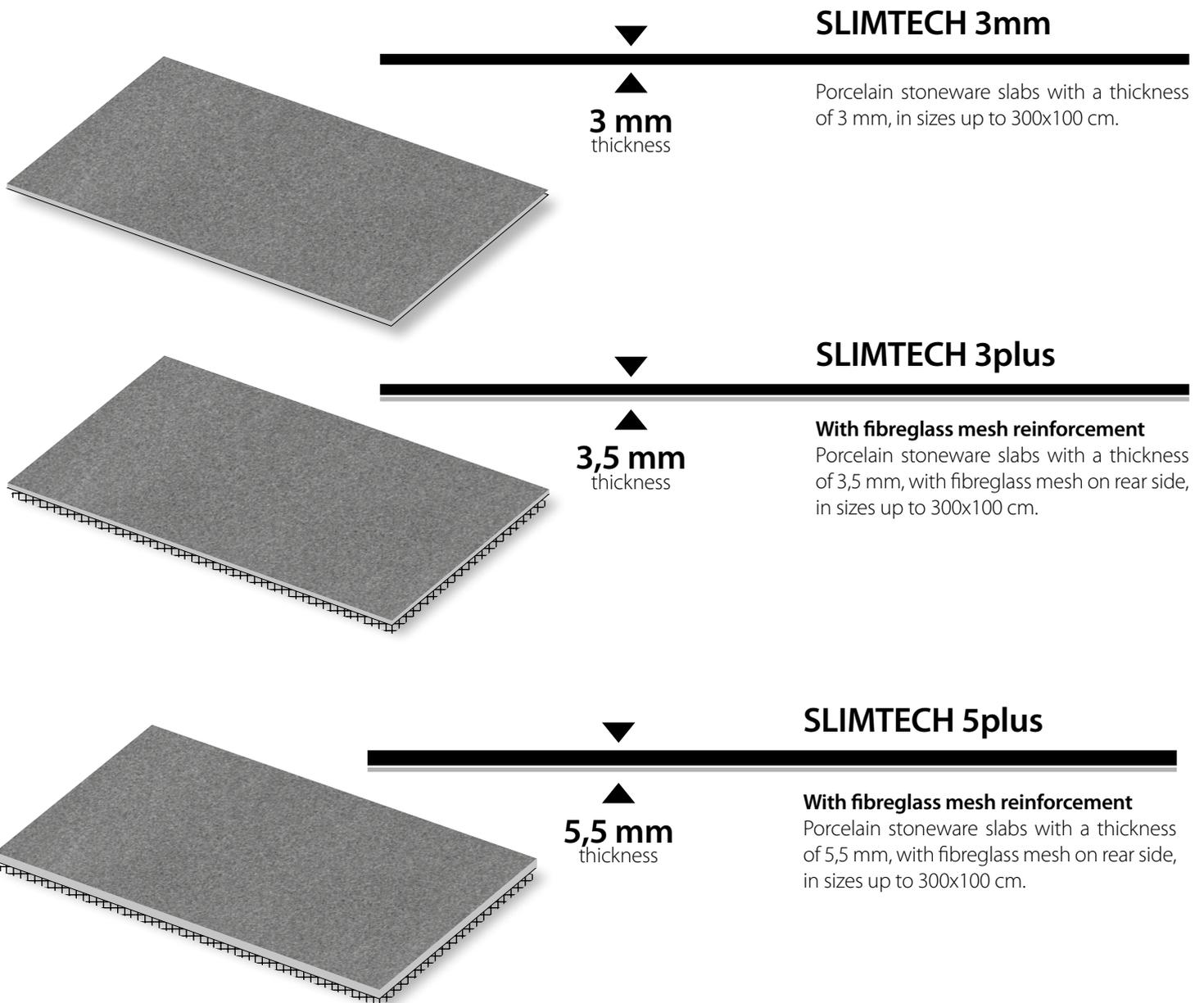
Contents

01	SLIMTECH	4
	1.1 - What is SLIMTECH?	4
	1.2 - Available types: SLIMTECH 3mm, SLIMTECH 3plus and SLIMTECH 5plus	4
<hr/>		
02	SLIMTECH 3mm, SLIMTECH 3plus and SLIMTECH 5plus: Which and Why?	5
<hr/>		
03	Working with SLIMTECH 3mm, SLIMTECH 3plus and SLIMTECH 5plus	6
	3.1 - Handling	6
	3.2 - Cutting, drilling and finishing edges	8
	3.2.1 - Manual processing	8
	3.2.2 - Processing with automatic machines	10
<hr/>		
04	Installing SLIMTECH 3mm, SLIMTECH 3plus and SLIMTECH 5plus	12
	4.1 - Supporting materials	12
	4.1.1 - Supporting material: requirements	12
	4.1.2 - Supporting material: special instructions for installation on pre-existing walls/floors	13
	4.1.3 - Supporting material: special instructions for installation on exterior plaster walls	13
	4.1.4 - Supporting material: instructions for installation on mats used for decoupling, soundproofing etc.	14
	4.1.5 - Supporting material: instructions for self-supporting panels	15
	4.1.6 - Supporting material: instructions for special construction systems	16
	4.1.7 - Supporting material: instructions for installing in accordance to "best practice"	17
	4.2 - Recommended adhesives	18
	4.3 - Instructions for installation	20
	4.3.1 - Adhesives: single-layer method / double-layer method	20
	4.3.2 - Installing the slab	20
	4.3.3 - Grouting joints and expansion joints	21
<hr/>		
05	Cleaning and care	22
<hr/>		
06	Connecting profiles, finishing and trim pieces	24
<hr/>		
07	Making corners during installation	26
	7.1 - Solution 1	26
	7.2 - Solution 2	27
<hr/>		
08	Technical information	28
	8.1 - Technical Characteristics	28
	8.2 - Tender specifications	32
	8.3 - Packages	33
<hr/>		
09	Useful contacts	36
<hr/>		
	Adhesives attachment	38

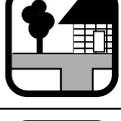
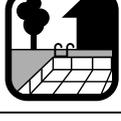
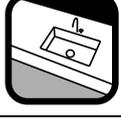
1.1 - What is SLIMTECH?

Produced by means of extremely innovative technology, SLIMTECH is manufactured in 300x100 cm slabs, with a thickness of 3 mm, using a porcelain stoneware body composed of top quality raw materials. It is pressed at a force of 15,000 tons. Firing takes place in innovative and ecological kilns that are the result of the research and know-how of Panariagroup. Single slabs of SLIMTECH are only 3 mm or 5 mm thick. This makes them flexible, light and extremely easy to handle. The minimal thickness is the **striking feature**, which makes the product suitable for a variety of different applications.

1.2 - Available types: SLIMTECH 3mm, SLIMTECH 3plus and SLIMTECH 5plus



SLIMTECH 3mm, SLIMTECH 3plus and SLIMTECH 5plus: Which and Why?*

	WALL INSTALLATION For NEW BUILDINGS and REFURBISHING, for installation on pre-existing walls	SLIMTECH 3mm	SLIMTECH 3plus	SLIMTECH 5plus
 Interiors	Any residential and commercial environment, in situations where holes and/or cuts are not necessary.	●	●	●
	Any residential and commercial environment, in situations where holes and/or cuts are necessary.	-	●	●
 Exteriors	In situations where holes and/or cuts are not necessary and with sizes up to 100 x 100 cm.	●	●	●
	In situations where holes and/or cuts are necessary and/or for large sizes.	-	●	●
	FLOOR INSTALLATION For NEW BUILDINGS and REFURBISHING, for installation on pre-existing floors	SLIMTECH 3mm	SLIMTECH 3plus	SLIMTECH 5plus
 Interiors	Residential (kitchens, bathrooms, living rooms, common apartment block areas and any other residential environment).	-	●	●
	Light commercial (offices, offices open to the general public, waiting rooms, shops, bathrooms, restaurant dining rooms, car showrooms, bars, cinemas, surgeries/clinics)	-	●	●
	Intensive commercial (common areas of shopping centres, hotel halls, canteens, fast food restaurants, dance clubs, hospitals) with the exception of areas subject to heavy concentrated loads (e.g. trolleys with hard wheels)	-	-	●
 Exteriors	Upon condition that surfaces are sheltered (e.g. loggias, covered balconies, etc.) and made totally impervious. The use of sizes that are not larger than 50x50 cm is recommended.	-	●	●
SPECIAL USES		SLIMTECH 3mm	SLIMTECH 3plus	SLIMTECH 5plus
 Ventilated Facades	Depending on project specifications and in combination with the construction systems recommended by Panariagroup and approved by the Installation Supervisor.	-	●	●
 Thermal Insulation Systems		● (◆)	●	●
 Pool And Swimming Pool Tiling		-	●	●
 For Furniture Surfaces.		●	●	●

(◆) In situations where holes and/or cuts are **not** necessary and with sizes up to 100 x 100 cm.

(*) Products with special finishes can have limitations depending on their area of application. Refer to specific collection catalogues.

Working with SLIMTECH 3mm, SLIMTECH 3plus and SLIMTECH 5plus

3.1 - Handling

Owing to their lightness, all types of SLIMTECH are much easier to handle and transport than slabs of marble, granite and natural stone, which are much thicker and therefore much heavier. With an identical weight, the number of square metres transported is four times greater. The weight of a 100x100 cm slab is approximately 7,4 kg for the SLIMTECH 3mm, 7,8 kg for SLIMTECH 3plus and 11,5 kg for SLIMTECH 5plus. When handling, the use of gloves is recommended.

HANDLING WHOLE SLABS (300x100 cm) OF SLIMTECH 3MM, SLIMTECH 3PLUS AND SLIMTECH 5PLUS



Fig.1 - All types of 300x100 cm slabs of SLIMTECH can be lifted by one person only. Lift the slab with open hands. Slowly raise the longer side so as to eliminate the suction effect, due to contact with the underlying slab, and ensure a good grip.

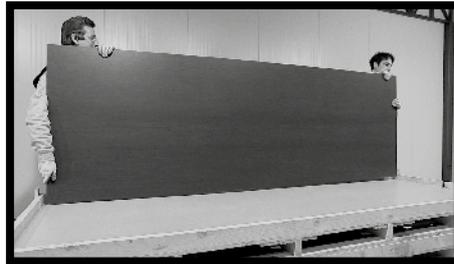


Fig.2 - You can now guide the slab to its upright position, keeping it as straight as possible.



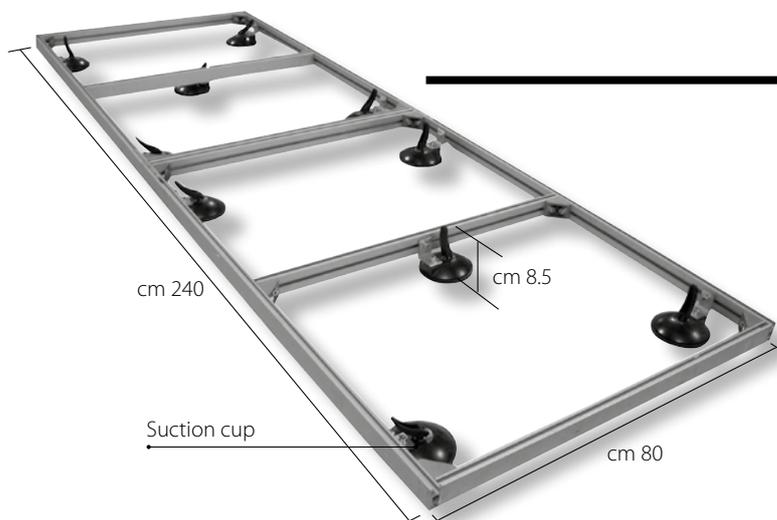
Fig.3 - When the slab is upright, hold it from its top edge and shift it keeping it straight and upright. This operation should be performed with the aid of a second person.



Fig.4/5 - All versions of SLIMTECH slabs, of size 300x100 cm, can be handled by two persons, using a special frame. Fasten the frame to the slab when it is still on the pallet. Now raise the frame and slab to eliminate the suction effect.



Owing to their lightness, all types of SLIMTECH are much easier to handle and transport than slabs of marble, granite and natural stone, which are much thicker and therefore much heavier.



The Frame

To safely handle slabs of SLIMTECH, of various types and in the 300x100 cm size, a special frame is available upon demand. It is made of aluminium and features suction cups. It is ideal for installing on scaffolding at a height of over 2 metres.

STORAGE OF WHOLE SLABS (300x100 cm)

All versions of SLIMTECH slabs (300x100 cm) can be stored either in vertical or horizontal position. If you place one slab on top of the other, make sure that each slab is clean and that the surface the slabs are resting on is flat.

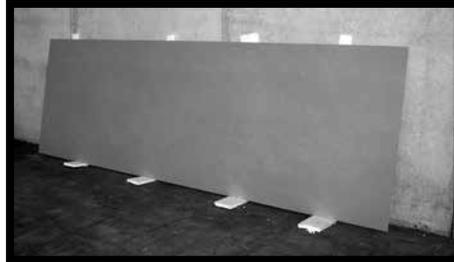


Fig.6 - As concerns the upright position, place the long side of the slab on a wooden plank.

HANDLING PACKAGES CONTAINING 300x100 cm

Lifting and handling palletised packages with forklift trucks:



Fig.7 - To take on pallets from their long side, position the forks at a distance of at least 1 metre the one from the other, perpendicular to the long side of the pallet and at the centre of the latter. Forks must be supporting the entire surface of the pallet.



Fig.8 - To take on pallets from their short side (e.g. when unloading containers), you must use forks with a length of at least 2,5 metres to guarantee a sufficiently long supporting surface and therefore protection of the package and its contents.

3.2 - Drilling, cutting and edge-finishing

A striking feature of SLIMTECH is its extreme ease-of-installation: this material can be easily cut, shaped and drilled both by tile layers and by specialised persons (stone cutters, glass-workers, etc.) using automatic machines and tools for porcelain stoneware, glass and marble. For manual operations and when using mechanical tools (such as for instance angle grinders, drills, cutters and electrical drills), it is recommended to wear gloves, masks for protection against dust and goggles.



A striking feature of SLIMTECH is its extreme ease-of-installation.

If you have to drill holes for pipes or perform cuts for switch boxes or other items, you must choose SLIMTECH 3plus or SLIMTECH 5plus.

3.2.1 - Manual processing

PREPARATION

It is essential to work on a flat and clean surface; you can use the cover of the pallet of the 300x100 cm.

CUTTING WITH A GLASS CUTTER OR MANUAL TILE CUTTER

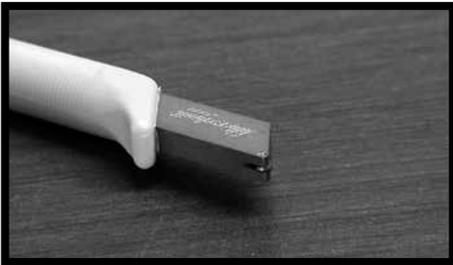


Fig. 9 - You can obtain excellent results in terms of shape and clear cuts by engraving all versions of SLIMTECH with Silberschnitt 2000 special glass cutters made by **Bohle Italia** or with the manual tile cutter made by **Würth**. To achieve good cuts, never detach the glass cutter from the slab throughout the entire cutting operation.



Fig.10 - To ensure that the engraving is as straight as possible, you may use aluminium levelling rods of the type commonly used by brick layers.



Fig.11 - After engraving, it is sufficient to bend the slab to detach the two pieces.

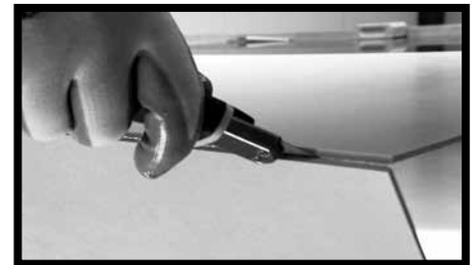


Fig.12 - As far as SLIMTECH 3plus and SLIMTECH 5plus are concerned, after engraving the ceramic part and splitting the slab, complete the operation by cutting the fibreglass mesh with a standard cutter.



Fig.13 - A practical tool for cutting is the tile cutter ruler (for instance Keracut from **Sigma** or Free-cut from **Raimondi**). As far as SLIMTECH 3plus and SLIMTECH 5plus are concerned, after engraving the ceramic part and splitting the slab, complete the operation by cutting the fibreglass mesh with a standard cutter (**Fig.12**).

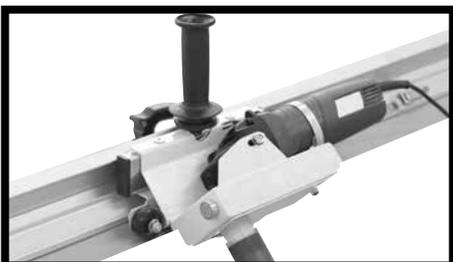


Fig.14 - With tile cutter rulers, you can use hand-held angle grinders, fitted into special frames that can be "fit onto" the cutting guide. In this manner, you can provide both 90° and 45° cuts to obtain bevels and jolly pieces.

CUTTING WITH DIAMOND DISCS



Fig. 15 - All versions of SLIMTECH can be cut using diamond discs fitted onto hand-held electrical grinding machines. Disc rotation speed must be high (>10000 RPM) and speed at which tool is pushed low (< 1 m/min). Depending on the type of disc and the length of the cut, it may be necessary to cool the disc with water. Recommended discs are the thin types generally used for cutting porcelain stoneware. The advantages of this type of cut include ease-of-execution and the possibility to cut during installation.

DRILLING



Fig.16 - As far as manual drilling is concerned, use tungsten bits with a diameter up to 10 mm, fitted to electric drills or battery-operated screwdrivers.



Fig.17/18 - As an alternative, you can use cutting discs fitted to angle grinders, electrical drills or battery-operated screwdrivers.



INTERNAL CUT / L-SHAPED CUT



Fig.19 - To obtain internal and L-shaped corners, round off the vertex of the corner using bits with a radius of at least 5 mm that reduce the risk of breakage. Then cut with diamond discs, taking care to stop moving the cutting tool forward when you reach the hole previously drilled. To drill and cut using diamond discs, follow the instructions provided above.

When using these tools:

- cool the point drilled with water;
- do not exert too much pressure and bear in mind the resistance of the type of laminated stoneware you are working on;
- if you are using tungsten bits, start drilling at a low speed;
- if you are using drills or screwdrivers, do not select hammering mode.

EDGE-FINISHING



Fig.20 - Edges can be finished by hand using abrasive diamond sponges or emery paper. With a light passage on the side of the slab, you can obtain a slightly rounded-off edge or with repeated passages a bevelled effect.



Fig.21 - The same results can be obtained with sanding discs fitted onto hand-held angle grinders.

3.2.2 - Using automatic machines



If you have to drill holes for pipes or perform cuts for switch boxes or other items, you must choose SLIMTECH 3plus and SLIMTECH 5plus.

Irrespective of the system adopted, the underlying surface must be perfectly flat to prevent minor vibration and movements of the slab that could lead to breakage or damage to the finish. It is recommended to use diamond tools for porcelain stoneware, in good working order.

If you have to drill holes for pipes or perform cuts for switch boxes or other items, you must choose SLIMTECH 3plus and SLIMTECH 5plus. To obtain internal corners and L-shaped cuts, round off the edge of the corner using bits with a radius of at least 5 mm that reduce the risk of breakage. It is recommended to perform a few tests before cutting so as to set up the machine in the best manner possible.

Operating parameters provided in this guide are to be considered as **indicative** and must be perfected and checked by the user based on the material used and the operations to perform.

ENGRAVING



Fig.22 - All types of SLIMTECH can be cut by engraving. This operation must be performed on a cutting bench and on the front face of the slab. As far as SLIMTECH 3plus and SLIMTECH 5plus are concerned, if this operation cannot be performed automatically on a cutting bench, the fibreglass mesh must be cut by hand with a cutter. Move the cutting tool forward at a speed of 10 m/min. and in any case at a suitable speed for the finish and colour of the slab. Apply an average pressure of about 1,2 bar. For slabs with light colours, you must exert a pressure of about 1,5 bar.

CUTTING WITH A DISC



Fig.23 - All versions of SLIMTECH can be cut with diamond discs. Use discs made especially for porcelain stoneware and in good working order. Disc rotation speed must be high (>2000 RPM) and speed at which tool is pushed low (from 0,5 to 1 m/min.) Depending on the type of disc and the length of the cut, it may be necessary to cool the disc with water.

Reduce speed at the start and at the end of the cut.

CUTTING WITH CNC MACHINES



Fig.24 - All versions of SLIMTECH can be cut with CNC machines. Cutter rotation speed ranges from 12000 to 18000 RPM. The cutter must be pushed forward at a speed ranging from 0,5 to 1 m/min.

CUTTING WITH A WATER JET MACHINE



Fig.25 - All versions of SLIMTECH can be cut with water jet cutting machines. Adopt a speed ranging from 2 to 3 m/min.

DRILLING WITH A NUMERIC CONTROL MACHINE

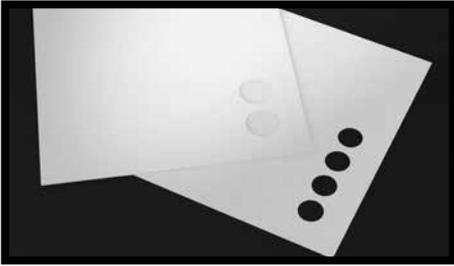


Fig.26 - All versions of SLIMTECH can be drilled with numeric control machines. Drill a preliminary hole using a diamond drill bit. If necessary, use a cutter to enlarge the hole to the requested size. Use a bit with a diameter ranging from 4 to 8 mm. Operating speed is 40 mm/min. with spindle rotation of 900 RPM. When using these tools: cool the point drilled with water; start drilling at a low speed; never exert too much pressure and bear in mind the resistance of the type of SLIMTECH you are working on.

DRILLING WITH A WATER JET MACHINE



Fig.27 - All versions of SLIMTECH can be drilled with water jet cutting machines. With water jet machines, you can obtain holes with a smaller diameter with respect to those possible with a numeric control machine. Operating speed must range from 2 to 3 m/min.

EDGE POLISHING



Fig.28 - To shape and polish the edge of the slab, use diamond/abrasive discs, which are suitable for obtaining an edge of the shape and size requested. Then use a polishing disc. Different discs are available for obtaining different edge finishes. Operating speed must be tested beforehand.

45° CUT



Fig.29 - To obtain 45° cuts, use 45° diamond discs. In this manner, you can join two slabs of SLIMTECH to create a corner. The corner must be bevelled. Different discs are available for obtaining a variety of edge finishes. Operating speed must be tested beforehand.

BEVELLING

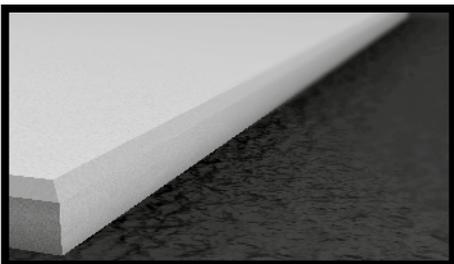


Fig.30 - All versions of SLIMTECH can be bevelled. To obtain curved edges, use a numeric control machine with a 5-axis disc. Different discs are available for obtaining a variety of edge finishes. Operating speed must be tested beforehand.

Installing SLIMTECH 3mm, SLIMTECH 3plus and SLIMTECH 5plus

In the same manner as all building materials, SLIMTECH works in combination with other materials. **For this reason, it is essential to:**

- define the characteristics of the support on which slabs will be installed (see "4.1 - **Preparing the support**");
- choose an adhesive that is suitable for the support and intended use (see "4.2 - **Recommended adhesives**");
- lay SLIMTECH on the support in the correct manner (see "4.3 - **Installation instructions**").

If the requirements of these three points are fulfilled, SLIMTECH will offer all the best of its unique characteristics.

4.1 - Preparing the support

4.1.1 - Supporting material: requirements

Irrespective of whether you are installing on walls or on floors, the support **must** have the characteristics described in detail below. Verifying and checking these conditions is at the care of the engineer and of the persons performing installation work.

■ COMPACT

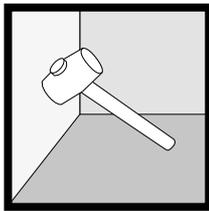
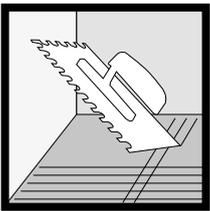


Fig.31/32 - Make sure that the support is compact both in terms of surface and structure. Check compactness of surface by tracing (engraving) a grid on the support with the edge of a trowel or with a steel nail. A support can be considered as compact if it does **not** crumble or pulverise in the point where the lines of the grid intersect. Check compactness of the structure by tapping on the surface with a 750 g mallet: **no** marks should form and the sound heard when tapping must not be hollow. The presence of layers or areas with a more brittle consistence means that mechanical characteristics are poor and may cause breakage or dislodging of slabs.

■ DRY

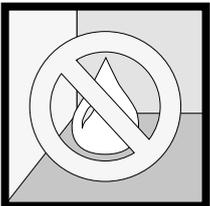


Fig.33 - This test can be performed using a hygrometer for building materials. For cement-based screeds, a moisture content of less than 2% before installation is acceptable. As far as anhydrite screeds are concerned, the moisture content must be lower than 0,5%.

■ FLAT

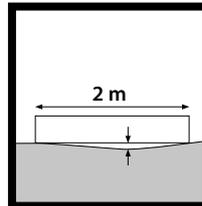


Fig.34 - Flatness checking is performed using a levelling rod with a length of at least 2 metres. Place the rod on the slab in all directions. The permissible tolerance is 2 mm.

■ STABLE OVER TIME

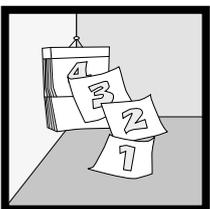


Fig.35 - The support must have suitable features for the intended use and must remain stable over time.

■ CLEAN



Fig.36 - The support must be clean. Dust, oil, grease, dirt and debris must be removed as they may compromise adhesion of the adhesive.

■ NO CRACKS



Fig.37 - In cement-based screeds, the presence of cracks due to hygrometric shrinkage is caused by one or more of the following factors: too much water in the mixture, too fine a grain size of the aggregates, too much cement. Before installation, seal any cracks and holes.

When installing on cement-based floors, the use of self-levelling products, such as **Mapei's** Ultraplan, guarantees all conditions described above. Use the product in accordance to the manufacturer's instructions.

4.1.2 - Supporting material: special instructions for installation on pre-existing walls/floors

For installation on pre-existing walls / floors, apart from the features described in §“4.1.1 - Supporting material: requirements”, also take into account the following indications:

INSTALLATION ON WOOD

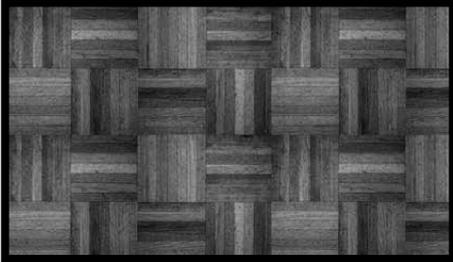


Fig.38 - Make sure that the supporting material is sound and firmly fixed. Remove all residues of oil, paint, grease and wax by sandpapering the surface.

INSTALLATION ON OLD CERAMIC TILE, COTTO, STONE, MARBLE, PVC

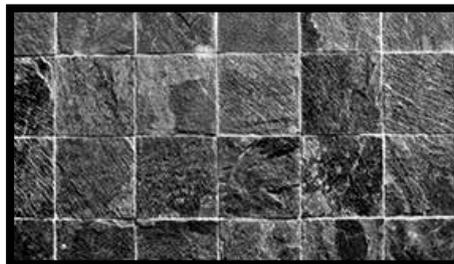
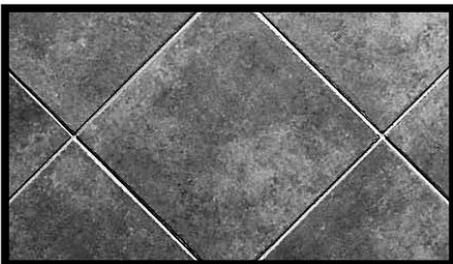


Fig.39/40 - Make sure that the supporting material is sound and firmly fixed. Eliminate any residues of oil, grease or wax by washing with a solution of water and caustic soda followed by thorough rinsing. If chemical cleaning is not possible, adopt mechanical abrasion techniques.

INSTALLATION ON METAL

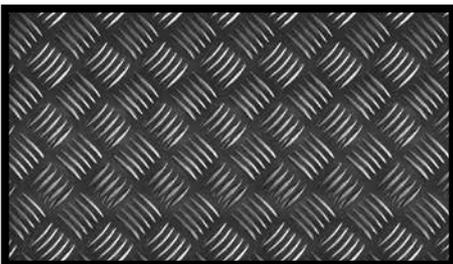


Fig.41 - Make sure that the supporting material is sound and firmly fixed. All residues of oil, grease, wax and paint must be removed by means of mechanical abrasion systems. After cleaning, remove all residues with particular care.

4.1.3 - Supporting material: special instructions for installation on exterior plaster walls

For installation on exterior plaster, apart from the features described in §“4.1.1 - Supporting material: requirements”, also take into account the following indications:

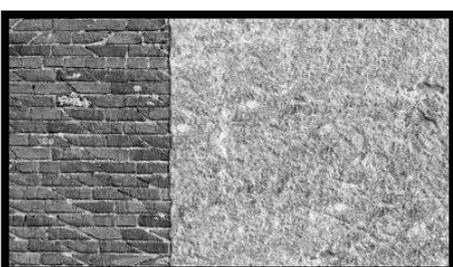


Fig.42 - For wall installation on exterior plaster, SLIMTECH 3plus and SLIMTECH 5plus must be glued onto a support with a high performance, which resists mechanical stress, such as structural movements, the weight of tiles, any thermal expansion and atmospheric agents. In this case, we recommend plaster such as KR100 from **Fassa Bortolo** or BF02 from **Grigolin**, or plaster with the same characteristics and with an average adhesion capacity to brick of at least 1 N/mm² (approx. 10 kg/cm²). In correspondence with the edges of doors, windows, etc., it is recommended to apply on plaster strips of mesh, such as Mapegrid G 120 from **Mapei**, positioned at 45°.

During installation, pay attention to stringcourses and structural joints.

4.1.4 - Supporting material: instructions for installation on mats used for decoupling, soundproofing etc.

Direct installation on the following products has been checked in the conditions described below. For each of the following systems, follow the manufacturer's instructions and perform work in accordance to "best practice". After installing the system, make sure that the support on which the slabs will be laid has the features described in paragraph "4.1.1 - Supporting material: requirements".

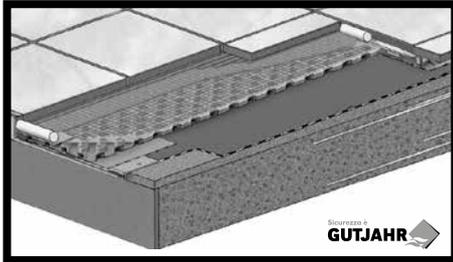


Fig.43 - Watec® Drain Kp from Gutjahr®

This is an uncoupling and draining cushioning material. It is used:

- as drainage system for loggias, balconies and bathrooms;
- as uncoupling element in closed environments, such as: critical substrates (existing floors, different materials, etc.); screeds with a high content of calcium sulphate; heated floors; wooden supports and dry screeds.

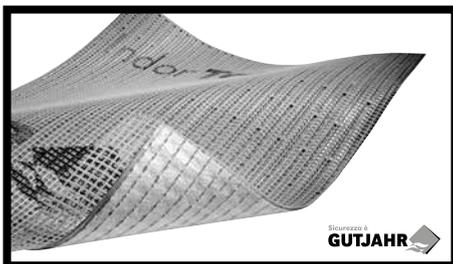


Fig.44 - IndorTec® 2E-PZ made by Gutjahr®

This is a highly resistant uncoupling system with a reinforced mesh. This product must be glued to the support. It is therefore possible to proceed with tile installation. It can be used in closed environments:

- critical substrates (existing floors, different materials, etc.);
- fresh, still damp cement screeds;
- heated floors;
- wooden substrates and dry screeds.

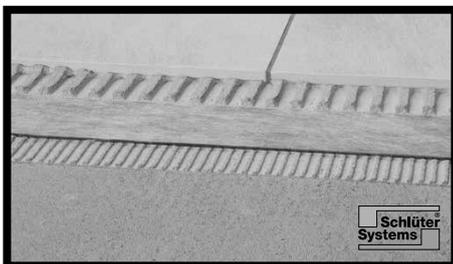


Fig.45 - Schlüter® - DITRA SOUND made by Schlüter Systems®

This is an impact sound insulating mat, made of high density polyethylene, which is suitable for installation with adhesive under ceramic coverings. It has an anchoring fleece laminated on both sides to effectively bond with the tile adhesive.

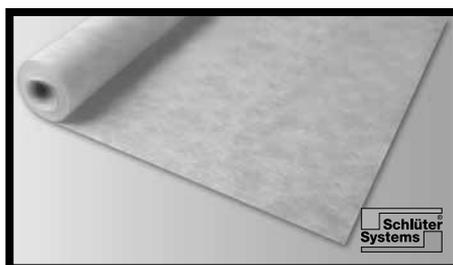


Fig.46 - Schlüter® - KERDI by Schlüter Systems®

This material is a 0,2 mm thick polyethylene membrane, which is elastic and waterproofing. It can be installed with adhesive under ceramic wall and floor tiles in bathrooms, showers, etc. The 0,5 mm version also acts as vapour barrier.

ONLY FOR SLIMTECH 5PLUS

Thanks to its physical and mechanical characteristics, SLIMTECH 5plus can also be used with different types of mat. Direct installation on the following products has been checked in the conditions described below. For each of the following systems, follow the manufacturer's instructions and perform work in accordance to "best practice". After installing the system, make sure that the support on which the slabs will be laid has the features described in paragraph "4.1.1 - Supporting material: requirements".



Fig.47 - Schlüter® - DITRA 25 made by Schlüter Systems®

This is a polyethylene membrane for uncoupling, waterproofing and allows release of pressure caused by vapour. Main applications:

- in interiors, for preventing cracks in floors, even when large slabs are used;
- on heated screeds for even diffusion of heat;
- as waterproofing system for loggias, covered balconies and bathrooms.

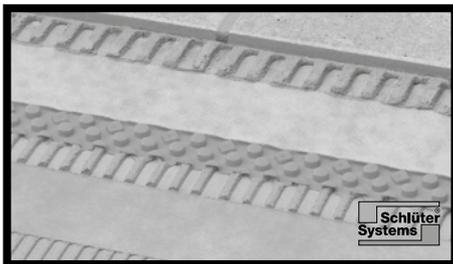


Fig.48 - Schlüter® - DITRA DRAIN 4 by Schlüter Systems®

This material is a polyethylene membrane consisting of webbing and permeable fabric. It is a passive capillary drainage system and uncoupling system between substrate and ceramic floor. Main applications:

- in interiors, for preventing cracks in floors, even when large slabs are used;
- on heated screeds for even diffusion of heat;
- as integration for waterproofing system for loggias, balconies and bathrooms.



Fig.49 - Mapetex System by Mapei®

This is a removable system, which preserves integrity of the floor underneath.

The system consists of a special non-woven fabric (Mapetex), which is used in combination with adhesive strips (Mapetex-Strip) to create a support for the installation of floors to be easily removed.

Mapetex can also be used as an isolating and anti-fracture membrane, limiting the damage that could be caused to the flooring by micro-cracks in the supporting element.

4.1.5 - Supporting material: instructions for self-supporting panels

Direct installation on the following products has been checked in the conditions described below. For each of the following systems, follow the manufacturer's instructions and perform work in accordance to "best practice". After installing the system, make sure that the support on which the slabs will be laid has the features described in paragraph "4.1.1 - Supporting material: requirements".



These self-supporting panels (such as for instance **Fig.50 - WEDI® building panels** and **Fig.51 - Schlüter® - KERDI BOARD by Schlüter Systems®**) can be used:

- as supporting material for ceramic tile;
- as substrate for installation of ceramic tile;
- for protection against humidity;
- as effective heat insulating material;
- for design purposes.

Panels can be used in interior environments at a normal temperature.

For information about special uses (e.g. swimming pools, refrigerated rooms, exteriors, etc.), contact the manufacturer of the panel.



4.1.6 - Supporting material: instructions for special construction systems

Installation is also possible on **construction systems** upon condition that these are installed in accordance to “best practice” and the manufacturer’s instructions and that the support has the characteristics described in paragraph “4.1.1 - **Supporting material: requirements**”:

INSTALLATION ON FIBRE CEMENT PANEL SYSTEMS (BACKER BOARD)

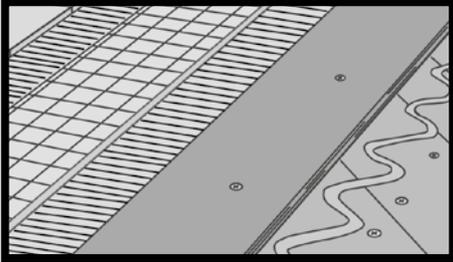


Fig.52 - This system consists of cement-based panels enclosed within two layers of fibre-glass mesh, to be installed both on walls and on floors, secured either mechanically or chemically to the underlying structure. When preparing this support, strictly follow the manufacturer’s instructions. Make sure that the points of contact between support and slab are filled with adhesive and that there is an overlying layer of fibreglass mesh submerged in the adhesive used for installation. This will ensure a support without cracks. After installing the system, make sure that the support on which the slabs will be laid has the features described in paragraph “4.1.1 - **Supporting material: requirements**”.

INSTALLATION ON SUSPENDED TIMBER FLOORS

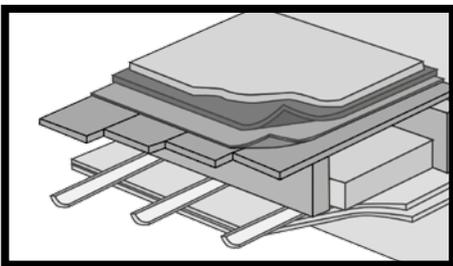


Fig.53 - This construction system consists of a floor made of wooden planks secured by means of nails to a lattice of stringers. Installation of this construction system is similar to **installation on wood - Fig.38**: follow the instructions provided.

INSTALLATION ON SUSPENDED SUPPORTS (E.G. GIFAFLOOR FHBPLUS BY KNAUF)

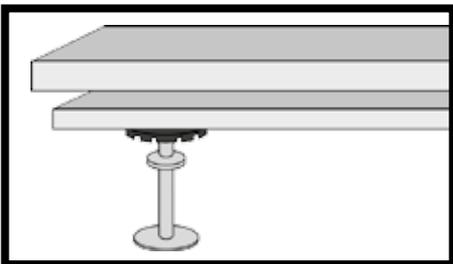


Fig.54 - This system consists of gypsum fibreboard panels resting on steel supports with an adjustable height. When preparing this system, strictly follow the manufacturer’s instructions. Make sure that the points of contact between support and slab are filled with adhesive. This will ensure a support without cracks. After installing the system, make sure that the support on which the slabs will be laid has the features described in paragraph “4.1.1 - **Supporting material: requirements**”. Application of a primer before the tile adhesive must be decided upon by the manufacturer of the adhesive you intend to use.

INSTALLATION ON ELECTRICAL HEATING SYSTEMS

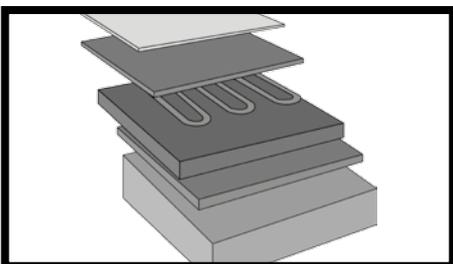


Fig.55 - An evolution of the classical heating system where the radiant element is embedded in the screed. This system consists in installing the radiant element beneath the tiles or rather in the adhesive used for installation of SLIMTECH or under a layer of self-levelling material. This type of system can be installed directly on a screed or existing floor. A layer of insulating material may be installed in between. Irrespective of the number and type of layers, after the adhesive or self-levelling material has undergone seasoning, you must make sure that the support has the features described in detail in paragraph “4.1.1 - **Supporting material: requirements**”.

WALL INSTALLATION ON UNCOUPLING OR MICROVENTILATED CUSHIONING - SYSTEM CeraVent® BY GUTJAHR®

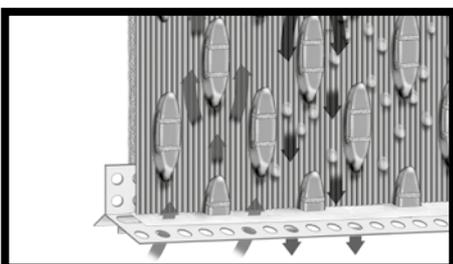


Fig.56 - SLIMTECH 3plus and SLIMTECH 5plus can be installed directly on the CeraVent® Gutjahr® system. This system allows for wall installation (walls featuring salt and rising damp, damaged facades, mixed supports, prefabricated materials, etc.) and offers microventilation and uncoupling from the substrate.

4.1.7 - Supporting material: instructions for installing in accordance to "best practice"

Here below you will find some basic information concerning "best practice" to follow for the most common types of supporting material:

CEMENT-BASED SCREEDS

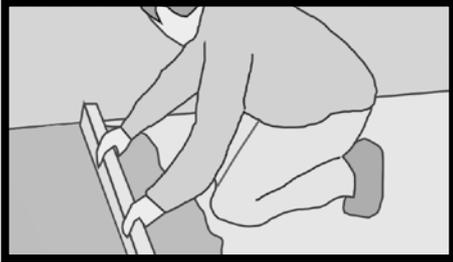


Fig.57 - The curing/seasoning time of cement-based screeds is of essential importance. As far as conventional sand/cement screeds are concerned, this time is about 7/10 days per cm of thickness. If you are using premixed products, such as **Mapei's** Topcem Pronto or **Kerakoll's** Keracem Eco Pronto, follow the instructions of the manufacturer.

General rules for correct construction of a screed:

- aggregates: these must be clean and not contain impure particles. The grain size must be suitable for the thickness of the screed to make;
- levelling strips: these must be made using the same binding agent used for the screed;
- sealing between hardened surfaces and moist mixture: joints between hardened screeds and moist mixture must be made by applying to the end of the hardened screed (clearly cut, perpendicular to the support) adhesion grout, water and binding agent;
- presence of pipelines in the screed: the overlaying layer of mortar must be at least 2.5 cm thick; it is necessary to place, above the pipelines, a metal mesh with a wire thickness of 2 mm so as to provide the necessary reinforcement beneath the thin layer of screed above and prevent the formation of cracks;
- finish: finishing can be performed with a trowel, a steel disc or smoothing tool, paying attention neither to moisten the surface too much nor to work for too long on the same area;
- checking residual moisture: this must be performed after the screed has reached the end of its curing period.

ANHYDRITE SLABS

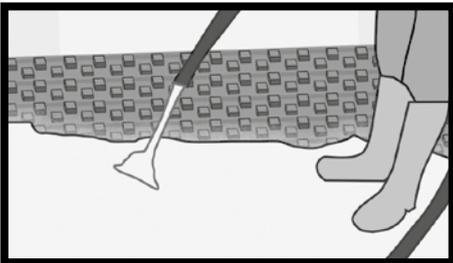


Fig.58 - Follow the instructions of the manufacturer. Before installation, the screed must be sandpapered, dedusted and perfectly dry (the maximum permissible moisture content is 0,5%).

HEATED SCREEDS

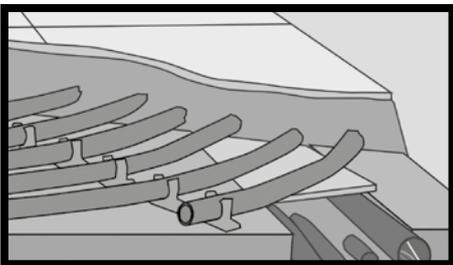


Fig.59 - Before starting the heated floor system, wait at least 14 days after casting the screed. As prescribed by the UNI EN 1264-4 standard, in point 4.4, heating begins at an initial temperature ranging from 20°C to 25°C, which must be maintained for at least 3 days. Then set the maximum permissible design temperature and maintain it for at least 4 days. Once the floor has reached ambient temperature, tile installation can begin.

CONCRETE

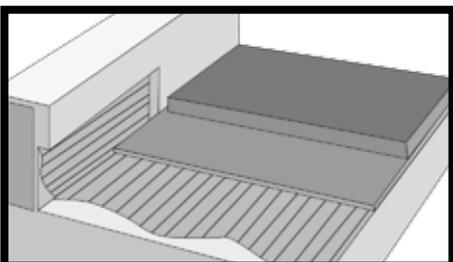


Fig.60 - Concrete must be sufficiently cured (this takes about 6 months or even more, depending on its thickness, composition, thermo-hygrometric requirements, etc.) and must not feature surface treatments such as mould release agents, resin, anti-evaporation treatments, old adhesives, etc. Floor slabs must be insulated against rising damp.

4.2 - Recommended adhesives

As a general rule that applies for all building materials to be secured in place with adhesive, there is no universal adhesive for installing SLIMTECH on all kinds of surface.

Since it is not possible to describe all possible cases, we have provided information about the most common situations. First of all, we have divided installation cases into "walls" and "floors" and then into "interior" and "exterior". Depending on the rated stress, on any work to be performed subsequently and on the maximum dimension of the slab, we have assigned a certain type of SLIMTECH to each category. Starting from this classification, we have thus examined the most common kinds of supporting material. The resulting chart has been sent to all main manufacturers of adhesives that have, in turn, provided the most suitable product for each category.

Please note that all solutions suggested have been submitted by adhesive manufacturers, who guarantee the indications given. For explanations or more information, contact the respect manufacturers (see "9 - Useful contacts").

It is essential to follow all instructions given by adhesive manufacturers. This applies in particular to waiting time running before a surface can be walked on or grouted and the "Ready to use" time shown in the following tables.

 WALL INSTALLATION (*) For NEW BUILDINGS and REFURBISHING, for installation on pre-existing walls					
 Interiors	Any residential and commercial environment, in situations where holes and/or cuts are not necessary.	SLIMTECH 3mm	Two-coat plaster, gypsum plaster, plasterboard, fibre cement panels	Page 40	
			Concrete, old ceramic tile, marble, stone	Page 41	
			Particle board, metal	Page 42	
	Any residential and commercial environment, in situations where holes and/or cuts are necessary.	SLIMTECH 3plus SLIMTECH 5plus	Two-coat plaster, gypsum plaster, plasterboard, fibre cement panels	Page 43	
			Concrete, old ceramic tile, marble, stone	Page 44	
			Particle board, metal	Page 45	
 Exteriors	In situations where holes and/or cuts are not necessary and with sizes up to 100 x 100 cm.	SLIMTECH 3mm	Plaster	Page 46	
			Concrete	Page 47	
	In situations where holes and/or cuts are necessary and/or for large sizes.	SLIMTECH 3plus SLIMTECH 5plus	Plaster	Page 48	
			Concrete	Page 49	
 FLOOR INSTALLATION (*) For NEW BUILDINGS and REFURBISHING, for installation on pre-existing floors					
 Interiors	Residential (kitchens, bathrooms, living rooms, common apartment block areas and any other residential environment).	SLIMTECH 3plus SLIMTECH 5plus	Cement-based screeds, calcium sulphate-based or heated screeds, self-levelling products, concrete, old ceramic tile, marble slabs, stone	Page 50	
	Light commercial (offices, offices open to the general public, waiting rooms, shops, bathrooms, restaurant dining rooms, car showrooms, bars, cinemas, surgeries/clinics).		Wood, PVC, rubber, linoleum, metal, resin	Page 51	
	Intensive commercial (common areas of shopping centres, hotel halls, canteens, fast food restaurants, dance clubs, hospitals) with the exception of areas subject to heavy concentrated loads (e.g. trolleys with hard wheels).	SLIMTECH 5plus	Cement-based screeds, calcium sulphate-based or heated screeds, self-levelling products, concrete, old ceramic tile, marble slabs, stone	Page 50	
			Wood, PVC, rubber, linoleum, metal, resin	Page 51	
	 Exteriors	Upon condition that surfaces are sheltered (e.g. loggias, covered balconies, etc.) and made totally impervious. The use of sizes that are not larger than 50x50 cm is recommended.	SLIMTECH 3plus SLIMTECH 5plus	Cement-based screeds, calcium sulphate-based or heated screeds, self-levelling products, concrete, old ceramic tile, marble slabs, stone	Page 50
				Wood, PVC, rubber, linoleum, metal, resin	Page 51

(*) Products with special finishes can have limitations depending on their area of application. Refer to specific collection catalogues.

How to read the **attachment**

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Setting for foot traffic and workability (***)	Ready for use (***)	Installation (*)
01	02	03	04	05	06	07	08	09	10	11

- 01**_ The installation supervisor must examine the conditions of the work site to choose between a normal setting adhesive or a quick setting
- 02**_ List of adhesive manufacturers.
- 03**_ Depending on the adhesive recommended by the manufacturer, you will find the size in cm of the slab.
- 04**_ List of adhesives recommended by manufacturers based on the intended use and size of slabs.
- 05**_ List of primers to use before adhesive application, as indicated by manufacturers for each intended use.
- 06**_ The mixing ratio refers to a single product unit (a bag, a can, etc.), in order to obtain the characteristics declared by manufacturers.
- 07**_ The adhesive's class under the UNI EN 12004 standard is indicated (see Sheet below "About ADHESIVES").
- 08**_ You will find an indication of how many square metres you can install with a single product unit prepared with the established mixing ratio.
- 09**_ You will find the time that must pass before treading on the surface to fill joints with grout.
- 10**_ You will find the time that must pass before using the floor, i.e. before it can go subject to static and/or dynamic stress.
- 11**_ You will find the installation method and features of the trowel to use for each adhesive.

About ADHESIVES

Adhesives are divided into THREE CLASSES, depending on their composition, as established by the UNI EN 12004 standard:

CEMENTITIOUS (**C**): mixture of hydraulic binding agents, aggregates and organic additives (note to be mixed with water or other liquid additive immediately before use)

REACTIVE (**R**): mixture of synthetic resin, mineral fillers and organic additives, which harden due to a chemical reaction (note: these adhesives may have one or more components)

DISPERSION (**D**): mixture of binding and organic agents, namely polymers in aqueous dispersion, organic additives and mineral fillers (note: ready-to-use mixtures)

Depending on their features, adhesives are thus classified:

Class **1**: normal setting

Class **2**: improved setting properties

There are three additional classes:

Class **F**: quick setting adhesives

Class **T**: slip resistant adhesives

Class **E**: adhesives with extended open time

There is a fourth additional class for cementitious adhesives only: adhesives can be classified as DEFORMABLE (S) and divided on the basis of test results under the UNI EN 12002 standard:

Class **S1**: deformable adhesives

Class **S2**: highly deformable adhesives

4.3 - Instructions for installation

4.3.1 - Adhesives: single-layer method / double-layer method

The installation technique and type of trowel to use depend basically on the type of adhesive used. This information can be found in the "4.2 - Recommended adhesives" section. Depending on the intended use and on the type of adhesive used, all versions of SLIMTECH can be installed both with a single-layer of adhesive or with the "double-layer" technique. In all cases, follow the indications below and make sure that support and slab are entirely coated with adhesive.

SINGLE-LAYER METHOD



Fig.61 - Wall installation



Fig.62 - Floor installation

This method refers **only** to adhesives that bear the indication "single-layer" in the "4.2 - Recommended adhesives" section. Spread the adhesive full-bed on the surface to cover (Fig.61/62), using a trowel with the features indicated in the "4.2 - Recommended adhesives" section.

DOUBLE-LAYER METHOD



Fig. 63

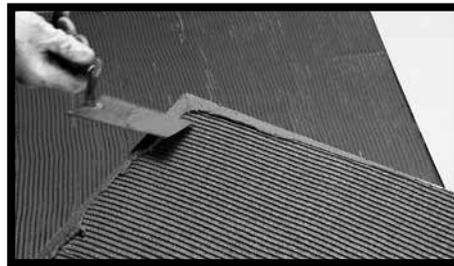


Fig. 64

Apply adhesive with the double-layer technique i.e. by spreading the adhesive full-bed on the surface to cover (Fig.61/62), using a notched trowel with tilted teeth at a distance of 6 mm the one from the other (e.g. Raimondi item n°138HFV6).

Also apply the adhesive on the under side of the slab, using a trowel with 3 mm teeth (Fig.63). When installing on floors, remember to spread adhesive around the edge of the slab (Fig.64).

BOTH FOR THE SINGLE-LAYER AND DOUBLE-LAYER METHOD



Fig. 65



Fig. 66

After laying the slab, make sure it is firmly adhering to the underlying surface to prevent gaps and air bubbles forming. For this purpose, you can use rubber coated trowels (e.g. Raimondi "142G" Fig.65) for wall or for floor installation, or electrical tile tapping tools with plastic plates (e.g. Raimondi "Cucciolò" Fig.66) for floor installation.

4.3.2 - Laying the slab

Being extremely light, slabs are easy to install.

300x100 slabs:



Fig.67 - 1 - To handle slabs, raise them to their upright position, whilst grasping them from the top edge. Move the slabs keeping them straight and with the aid of another person.



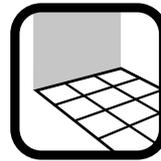
Fig.68 - 2 - Rest the slab on its long side and guide it towards the floor.

4.3.3 - Grouting and expansion joints

SLIMTECH has an expansion coefficient equal to $7,0 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$ (i.e. for a temperature range of 70°C, expansion is 0,5 mm per linear metre). Despite expansion being minimal, it is however **necessary** to install all types of SLIMTECH, both for walls and floors, in compliance with the following instructions:



Wall installation



Floor installation

 Interiors	Joint between slabs necessary. Minimum size is at least 1 mm.	The size and position of expansion joints must be established by the installation supervisor.	 Interiors	Joint between slabs necessary. Minimum size is at least 2 mm.	Expansion joints are necessary. The size and position of joints must be established by the installation supervisor. As a general rule, provide at least every 15/20 m ²
 Exteriors	Joint between slabs necessary. Minimum size is at least 5 mm.	Expansion joints are necessary. The size and position of joints must be established by the installation supervisor. As a general rule, provide at least every 9 m ² .	 Exteriors	Joint between slabs necessary. Minimum size is at least 5 mm.	Expansion joints are necessary. The size and position of joints must be established by the installation supervisor. As a general rule, provide joints every 9 m ² .

Upon condition that surfaces are sheltered (e.g. loggias, covered balconies, etc.) and made totally impervious. The use of sizes that are not larger than 50x50 cm is recommended.

FURTHERMORE:

		Interiors Wall installation Floor installation			Exteriors Wall installation Floor installation
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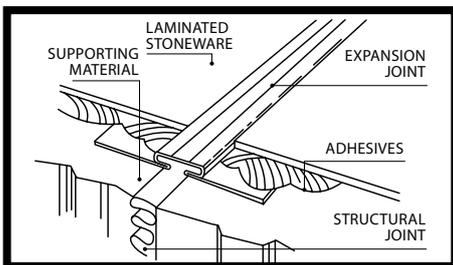


Fig.69 - In correspondence with a structural joint in the screed, it is **mandatory** to provide an expansion joint with a width that is at least the size of the existing one.

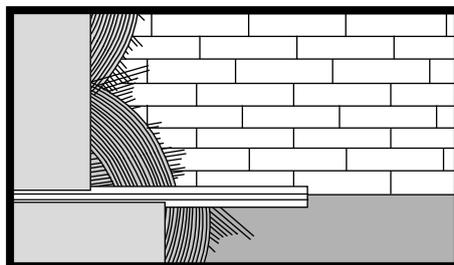


Fig.70 - If there are joints between surfaces of different types (e.g. reinforced concrete and bricks), it is **mandatory** to provide an expansion joint.

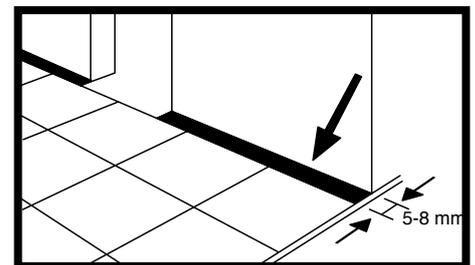


Fig.71 - Around fixed elements of the supporting surface, such as walls, steps, columns, etc., it is **mandatory** to provide 5-8 mm peripheral joints.

For suggestions on the type of joint to use, see "6 - Connecting profiles, finishing and trim pieces". Please also remember that expansion joints can be made using silicone products.

Cleaning and care

■ CLEANING AFTER INSTALLATION

Cleaning "after installation" is necessary for removing residues of grout, cement and mortar. This operation is mandatory after installation both for glazed and unglazed tiles. Never clean tiles that are too hot (e.g. exposed to sunlight during hot summer months) since the action of aggressive chemicals may become harsher. In Summer, clean during the cooler hours of the day.

Non-slip surfaces: due to their particular, non-slip, rough or structured textures, these surfaces are more difficult to clean. Therefore pay particular attention to cleaning methods, in particular clean sooner and use motorised brushes with white and beige discs.

Grout used	When to clean	What to use	Methods of use
Cementitious grout mixed with water	After 4/5 days and within 10 days from grouting	Acid-based detergents (see "List of acid-based detergents")	Follow the instructions of the detergent manufacturer. Test the product before actual use. This applies in particular to lapped or polished products. Before washing, surfaces to clean must be soaked in water. After washing, soak up any liquid (if possible using a vacuum cleaner for liquid) and rinse thoroughly and several times with water. Soak up any remaining rinsing water with a vacuum cleaner for water or a cloth.
Epoxy grout, two-component and reactive	Immediately	Follow the instructions of the grout manufacturer.	This type of product must be removed immediately and accurately since these grouts harden very rapidly, even in just a few minutes. Strictly follow the cleaning methods recommended by the grout manufacturer and check if it is effective (also against light) by performing a cleaning test before grouting the entire floor/wall.

List of acid-based detergents

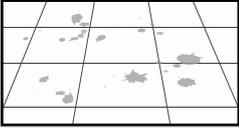
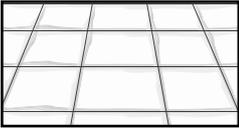
Follow the instructions given on the package. Test the product before actual use. This applies in particular to lapped or polished products.

Name of detergent	Manufacturer
Keramet	Mapei
Deltaplus	Kerakoll
Cement Remover	Faberchimica
Deterdek	Fila
Trek	Kiter
Zementschleierentferner	Lithofin
HMK R63	HMK
Solvacid	Geal
Litoclean Plus	Litokol
Bonaclean	Bonasytems Italia
Bonadecon (*)	Bonasytems Italia

(*) especially made for materials that are not acid-resistant



If after-installation cleaning has not been correctly performed

Grout used	What do you see?	What should you do?
Cementitious grout mixed with water	Residues, glossy films. 	Repeat washing after installation as described above. If necessary, use a higher concentration of the same detergents
Epoxy grout, two-component and reactive	Marks, in particular around the grouting joints. 	Once it has hardened, grout is very difficult or even impossible to remove. Contact the grout manufacturer.

■ PROTECTIVE AGENTS FOR GROUTING JOINTS

These are used to reduce porosity and therefore make cementitious grout more resistant to stains. Use of protective agents can make cleaning easier. Follow the instructions given on the package. Test the product before actual use. This applies in particular to lapped or polished products.

Grout used	Product name	Manufacturer	Methods of use
Cementitious grout mixed with water	Fugaproof KF Fugenschutz	Fila Lithofin	Follow the manufacturer's instructions

■ NON-SLIP TREATMENT

Non-slip properties of installed floors (glazed or unglazed) can be improved using specific products. Follow the instructions given on the package. Before application on an installed floor, test the product on a loose tile. The longer you leave the product on the tile, the more you increase non-slip properties. However, this can whiten the tiles a little and make cleaning a little more difficult.

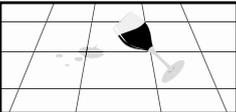
Product name	Manufacturer	Methods of use	Maintenance
Bonagrip	Bonasytems Italia	Follow the manufacturer's instructions	Follow the manufacturer's instructions

■ DAILY CLEANING

For daily care, use neutral detergents diluted in plenty of warm water. Detergents should not contain wax or leave glossy stains. Dry with a good quality microfibre cloth, such as, for instance MAGICCLEAN made by **Bonasytems Italia**. After washing, rinse accurately with water; dry using another good quality microfibre cloth, such as MAGICCLEAN made by **Bonasytems Italia**.

Support to clean	What to use	Methods of use
SLIMTECH 3mm SLIMTECH 3plus SLIMTECH 5plus DECORATIONS	Neutral detergent without wax (see *List of detergents). NEVER use alcohol, acid, solvents, abrasive detergents, abrasive sponges or pads.	Diluted in plenty of warm water. Rinse thoroughly after washing. For all operations (washing, rinsing and drying), use good quality microfibre cloths.

List of detergents	
Follow the instructions given on the package. Test the product before actual use. This applies in particular to lapped or polished products.	
Name of detergent	Manufacturer
Floor Cleaner Fila Cleaner Pflegerreiniger HMK P15 Bonamain Plus (*)	Faberchimica Fila Lithofin HMK Bonasytems Italia
(*) NEVER use to clean DECORATED pieces	

! If daily cleaning has been done using unsuitable detergents		
Support to clean	What do you see?	What should you do?
SLIMTECH 3mm SLIMTECH 3plus SLIMTECH 5plus DECORATIONS	Opaque stains visible against light / floor is glossier than the spare pieces that have not been installed 	Use a detergent such as Tile Cleaner made by Faberchimica or Bonadecon made by Bonasytems Italia . Use product undiluted and let it work for 5 to 10 minutes. Then rub with a white pad, rinse thoroughly with water, soak up any remaining rinsing liquid with a vacuum cleaner for liquid or a cloth and finally dry with a good quality microfibre cloth, such as MAGICCLEAN made by Bonasytems Italia .
	Opaque stains visible against light when in contact with various types of liquid 	
	Marks remain 	

■ EXTRA-DUTY CLEANING

Support to clean	Type of dirt	What to use	Methods of use	Name of detergent	Manufacturer
SLIMTECH 3mm SLIMTECH 3plus SLIMTECH 5plus	Coffee, Coca Cola®, fruit juice	Alkaline-based detergent	Follow the instructions of the detergent manufacturer.	Coloured stain remover PS87	Faberchimica Fila
	Grease, dust from foot traffic, deep-down cleaning	Alkaline-based detergent	Follow the instructions of the detergent manufacturer.	PS87 Litonet Intensivreiniger HMK R55 Taski R20-strip Bonamain, Bonadecon	Fila Litokol Lithofin HMK Johnsondiversey Bonasytems Italia
	Wine	Oxidising detergent	Follow the instructions of the detergent manufacturer.	Oxidant	Faberchimica
	Lime residues	Acid-based detergents	Follow the instructions of the detergent manufacturer. Test the product before actual use. This applies in particular to lapped or polished products.	Viakal	Procter & Gamble
	Rust	Acid-based detergents	Dilute the product and apply on the stain. Allow to work for 10/20 minutes then rinse thoroughly. If necessary repeat. Test the product before actual use. This applies in particular to lapped or polished products.	Diluted muriatic acid	(various makers)
	Tyre marks, pencil marks and metal marks	Abrasive paste	Follow the instructions of the detergent manufacturer. Test the product before actual use. This applies in particular to lapped or polished products.	Polishing cream Vim clorex Detergum (*) (*) DO NOT use on lapped or polished products.	Faberchimica Guaber Zep Italia
	Ink, marker	Solvent-based detergent	Solvents should be applied undiluted on the stain. Let them work for about 15/30 seconds. If necessary repeat. As far as "Coloured stain remover" is concerned, follow the manufacturer's instructions.	Nitro thinner 1,2-dichloroethylene Turpentine Coloured stain remover	(various makers) (various makers) (various makers) Faberchimica
	Dirt from grout	Detergent for grout	Follow the instructions of the detergent manufacturer.	Fuganet Fugenreiniger	Fila Lithofin
DECORATIONS	Any	Neutral, wax-free detergent	Use water and a neutral, wax-free detergent. NEVER use alcohol, acid, solvents, abrasive detergents, abrasive sponges or pads.	Floor Cleaner Fila Cleaner Pflegerreiniger HMK P15 Bonamain Plus	Faberchimica Fila Lithofin HMK Bonasytems Italia

Connecting profiles, finishing and trim pieces

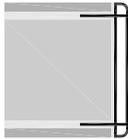
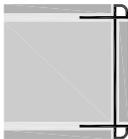


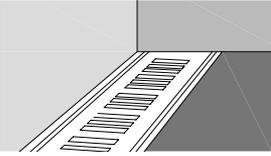
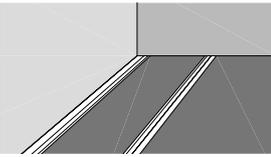
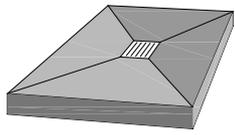
You can complete all versions of SLIMTECH walls and floors with the profiles available on the market.

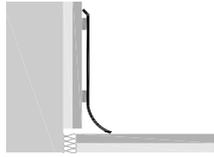
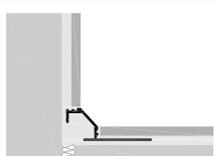
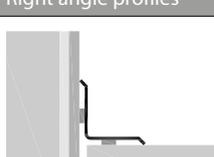
Here below you will find some possible solutions using the profiles sold by the main manufacturers of the sector. The solutions described have different characteristics and sizes, depending on the manufacturer, and cannot be described in detail herein. The drawings and instructions for use are therefore indicative and of a general nature. For more information and to gain an exhaustive idea of the complete ranges offered, refer to the manufacturer. You will find a list of references in "9 - Useful contacts".

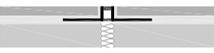
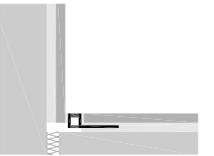
PROFILITEC S.p.A.	www.profilitec.com
SCHLÜTER-SYSTEMS ITALIA SRL	www.schlueter.it
WEDI	www.wedi.it
RARE	www.rareboxdoccia.com

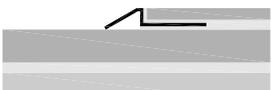
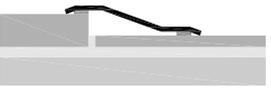
PROGRESS PROFILES	www.progressprofiles.com
PROFILPAS	www.profilpas.com
DURAL	www.dural.de/en

PROFILES FOR DOORS AND WORK TOPS	Manufacturer	Best-selling products			
Full profile		For thick.(mm)	3	3,5	5,5
	Profilitec	Planotec BP	●	●	-
	Progress Profiles	Protop	●	●	-
Profiles with tile compartment		For thick.(mm)	3	3,5	5,5
	Progress Profiles	Protect J, T, Q	●	●	-

SHOWER SYSTEMS	Manufacturer	Best-selling products			
Stainless steel grill		For thick.(mm)	3	3,5	5,5
	Profilitec	Drain griglia	●	●	●
	Schlüter®-Systems	Kerdi-Line-H	●	●	●
	Dural	BASIC-LINE	●	●	●
	Progress Profiles	Proshower Design	●	●	●
	Wedi	Plano Linea	●	●	●
	Profilpas	Drain Invisible	●	●	●
	Rare	Ad Hoc	●	●	●
Grill with tile compartment		For thick.(mm)	3	3,5	5,5
	Schlüter®-Systems	Kerdi-Line-D	●	●	●
	Dural	TI-LINE	●	●	●
	Progress Profiles	Proshower Tile	●	●	●
	Wedi	Riolito piastrellabile	●	●	●
	Rare	Ad Hoc	●	●	●
Shower base system		For thick.(mm)	3	3,5	5,5
	Schlüter®-Systems	Kerdi-Shower	●	●	●
	Dural	TILUX	●	●	●
	Wedi	Fundo Primo / Plano	●	●	●
	Rare	Ad Hoc	●	●	●

WALL/FLOOR AND INNER CORNER	Manufacturer	Best-selling products			
Bullnose		For thick.(mm)	3	3,5	5,5
	Profilitec	BA Bullnose	●	●	●
	Progress Profiles	Bullnose 40	●	●	-
	Profilpas	Metal Line	●	●	-
	Dural	Construct	●	●	●
Bullnose profile		For thick.(mm)	3	3,5	5,5
	Profilitec	BT bullnose	●	●	-
	Progress Profiles	Printer KL ALL	●	●	-
	Profilpas	Print	●	●	-
Minimum quarter round cove		For thick.(mm)	3	3,5	5,5
	Profilitec	Mosaitec CRM Coflex CR	●	●	●
	Progress Profiles	Proshell D ALL	●	●	-
	Profilpas	Proround/Print	●	●	-
Quarter round cove		For thick.(mm)	3	3,5	5,5
	Profilitec	Mosaitec CRM Coflex CR	●	●	●
	Progress Profiles	Proshell R ALL	●	●	-
	Profilpas	Proround/Print	●	●	-
Obtuse angle profiles		For thick.(mm)	3	3,5	5,5
	Profilitec	Sanitec SB	●	●	●
	Schlüter®-Systems	ECK-KHK	●	●	●
	Progress Profiles	Proseal	●	●	-
	Profilpas	Saniboard	●	●	-
	Dural	Duracove	●	●	●
Right angle profiles		For thick.(mm)	3	3,5	5,5
	Schlüter®-Systems	ECK-KI	●	●	●
	Progress Profiles	Probat	●	●	-
	Profilpas	Saniboard	●	●	-

EXPANSION JOINTS		Manufacturer	Best-selling products			
Floor joints			For thick.(mm)	3	3,5	5,5
	Profilitec	Coflex CAJ Coflex CA	●	●	●	
	Schlüter®-Systems	Dilex-BWS	●	●	●	
	Progress Profiles	Proflex	●	●	●	
	Profilpas	Projoint DIL	●	●	-	
	Dural	Duraflex	●	●	●	
Perimeter joints			For thick.(mm)	3	3,5	5,5
	Profilitec	Coflex CAJP	●	●	●	
	Schlüter®-Systems	Dilex-BWA	●	●	●	
	Progress Profiles	Proflex 5 PR	●	●	●	
	Profilpas	Projoint DIL	●	●	-	
	Dural	Duraflex SF	●	●	●	

SURMOUNTED ELEMENTS AND COVERING PROFILES		Manufacturer	Best-selling products			
Connection			For thick.(mm)	3	3,5	5,5
	Profilitec	Roundjolly RJ	●	●	●	
	Schlüter®-Systems	Reno-U	●	●	●	
	Progress Profiles	Proslider KL ALL	●	●	-	
	Profilpas	Pronivel	●	●	-	
Surmounted element			For thick.(mm)	3	3,5	5,5
	Profilitec	Linotec Variotec DK	●	●	●	
	Schlüter®-Systems	Reno-T	●	●	●	
	Progress Profiles	Profloor 24	●	●	-	
	Profilpas	Prolevel	●	●	-	
	Dural	LPTE	●	●	●	
Straight edge covering profile			For thick.(mm)	3	3,5	5,5
	Profilitec	Squarejolly SJ	●	●	●	
	Schlüter®-Systems	Quadec	●	●	●	
	Progress Profiles	Projolly Square	●	●	●	
	Profilpas	Proangle Q	●	●	●	
	Dural	Squareline	●	●	●	
Rounded edge covering profile			For thick.(mm)	3	3,5	5,5
	Profilitec	Roundjolly RJ	●	●	●	
	Schlüter®-Systems	Rondec	●	●	●	
	Progress Profiles	Projolly Quart	●	●	●	
	Profilpas	Protrim	●	●	-	

CURVED PROFILES		Manufacturer	Best-selling products			
Metal profile for curves			For thick.(mm)	3	3,5	5,5
	Profilitec	Curveline	●	●	●	
	Schlüter®-Systems	Schiene	●	●	●	
	Progress Profiles	Curve	●	●	-	
	Profilpas	Proflex Line	●	●	-	
	Dural	Z-FLEX	●	●	●	

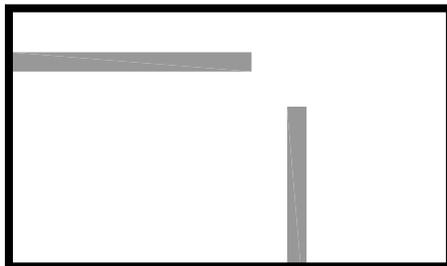
STEPS AND OUTER CORNERS		Manufacturer	Best-selling products			
Profiles for protruding steps			For thick.(mm)	3	3,5	5,5
	Schlüter®-Systems	Rondec	●	●	●	
	Progress profiles	Prostyle KL10	●	●	-	
	Profilpas	Prostep	●	●	-	
Reinforced profiles for steps			For thick.(mm)	3	3,5	5,5
	Schlüter®-Systems	TREP-E	●	●	●	
	Profilpas	Prostep SMA	●	●	-	
	Dural	Diamondstep	●	●	●	
	Progress Profiles	Prostair Acc	●	●	-	
	Profilitec	Stairtec FS	●	●	-	
Rounded profiles with non-slip tread			For thick.(mm)	3	3,5	5,5
	Profilitec	Stairtec FO	●	●	-	
	Schlüter®-Systems	TREP-GK	●	●	●	
	Progress Profiles	Prostair KL 20	●	●	-	
	Profilpas	Prostep	●	●	-	
Rounded profile			For thick.(mm)	3	3,5	5,5
	Profilitec	Roundjolly RJ	●	●	●	
	Schlüter®-Systems	Rondec	●	●	●	
	Progress Profiles	Projolly Quart	●	●	●	
	Profilpas	Protrim	●	●	-	
Straight edge profile			For thick.(mm)	3	3,5	5,5
	Profilitec	Squarejolly SJ	●	●	●	
	Schlüter®-Systems	Quadec	●	●	●	
	Progress Profiles	Projolly Square	●	●	●	
	Profilpas	Proangle Q	●	●	●	
	Dural	Squareline	●	●	●	
Thin corner profile			For thick.(mm)	3	3,5	5,5
	Profilitec	Mosaictec RJF	●	●	●	
	Progress Profiles	Prokerlam LINE	●	●	-	
	Profilpas	Probord IPA	●	●	-	
Corner profiles			For thick.(mm)	3	3,5	5,5
	Profilitec	Stairtec SE	●	●	●	
	Schlüter®-Systems	ECK-K	●	●	●	
	Progress Profiles	Proedge	●	●	-	
	Profilpas	Procorner	●	●	-	
	Dural	Duragard	●	●	●	

Making corners during installation

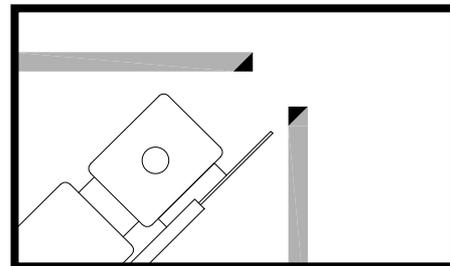
7.1 - Solution 1



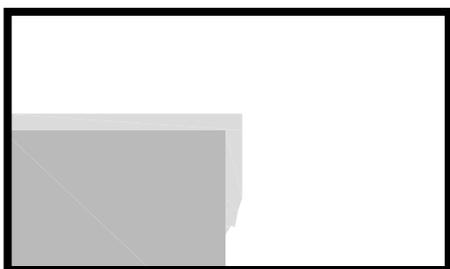
You can obtain "handmade" corner finishes with an attractive appearance and without using corner profiles.



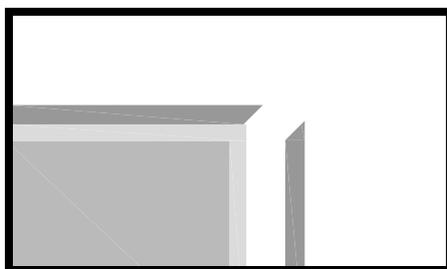
1 - Slabs of SLIMTECH in all types.



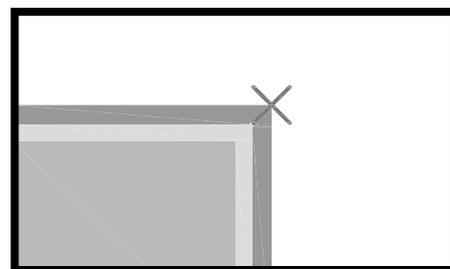
2 - Provide a 45° cut on the inner edge of the slab with a hand-held angle grinder or grinder fitted on a guide, such as the 36B bevelling machine made by **Sigma**.



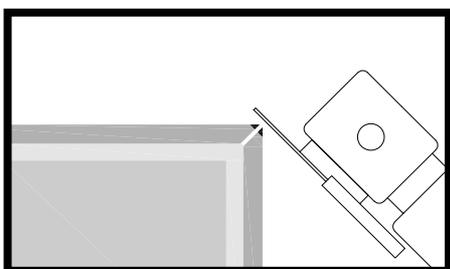
3 - Spread adhesive on the support.



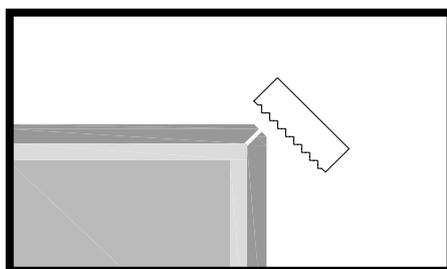
4 - Lay the first slab.



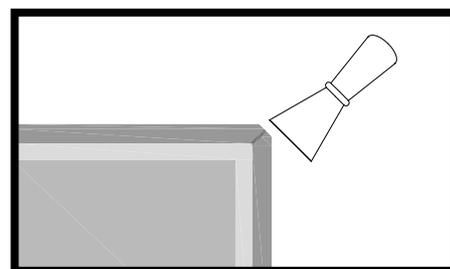
5 - Lay the second slab using 1 mm spacer crosses.



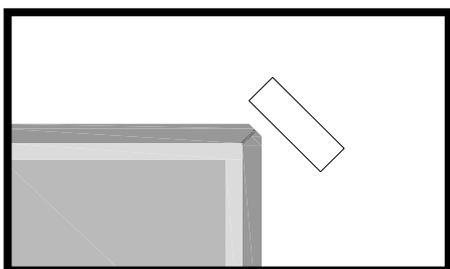
6 - After adhesive has cured, provide a 45° cut with a hand-held angle grinder or grinder fitted on a guide, such as the 36B bevelling machine made by **Sigma**.



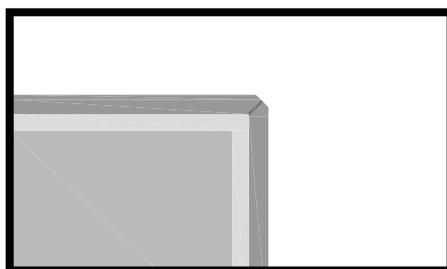
7 - Smoothen the edge with an abrasive sponge.



8 - Apply epoxy grout with a trowel (*).

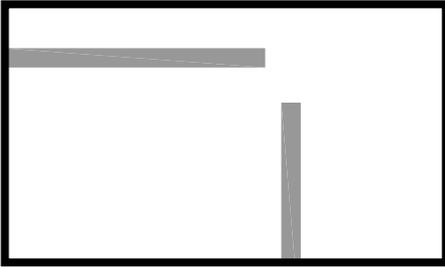


9 - Remove excess grout with a sponge moistened in warm water and alcohol (*).

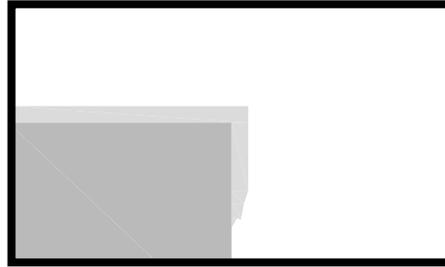


10 - The corner is now ready.

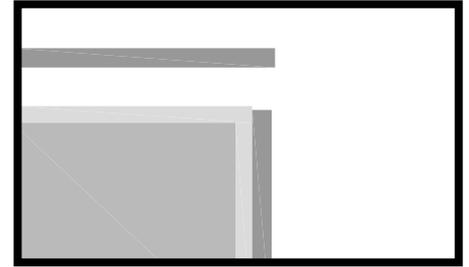
7.2 - Solution 2



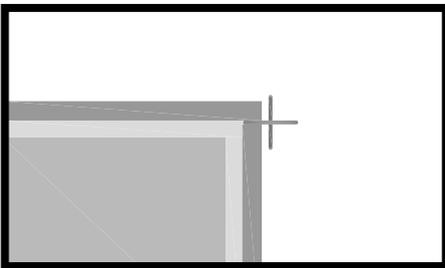
1 - Slabs of SLIMTECH in all types.



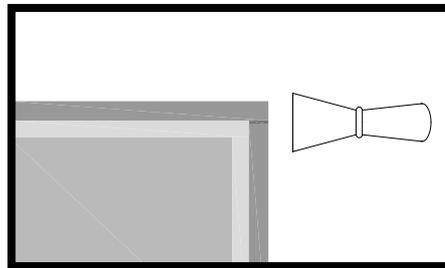
2 - Spread adhesive on the support.



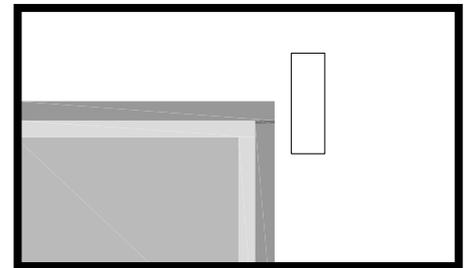
3 - Lay the first slab.



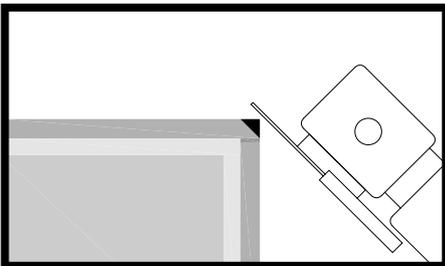
4 - Lay the second slab using 1 mm spacer crosses.



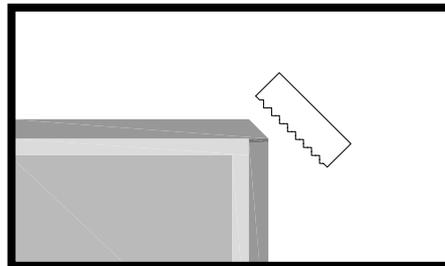
5 - After adhesive has cured, apply epoxy grout with a trowel (*).



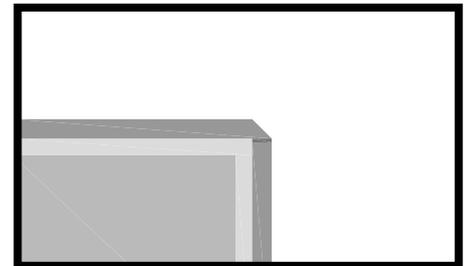
6 - Remove excess grout with a sponge moistened in warm water and alcohol (*).



7 - After grout has cured, provide a 45° cut with a hand-held angle grinder or grinder fitted on a guide, such as the 36B bevelling machine made by **Sigma** (*).



8 - Smoothen the edge with an abrasive sponge.



9 - The corner is now ready.



(*). To perform this operation, strictly follow the instructions provided by the epoxy grout manufacturer.

8.1 - Technical characteristics

GENERAL TECHNICAL CHARACTERISTICS							
	TECHNICAL CHARACTERISTIC	Test method	Requirements under EN 14411 - G / ISO 13006 - G Group BIa-UGL	Values SLIMTECH 3mm	Values SLIMTECH 3plus	Values SLIMTECH 5plus	
	Water absorption	ISO 10545-3	≤ 0,5%	≤ 0,1%	≤ 0,1%*	≤ 0,1%*	
	Bending strength	ISO 10545-4	≥ 35 N/mm ²	≥ 35 N/mm ²	≥ 120 N/mm ² **	≥ 55 N/mm ² **	
	Breaking strength (S)	ISO 10545-4	≥ 700 N	Not requested Wall covering	≥ 1000 N**	≥ 1200 N**	
	Deep abrasion resistance	ISO 10545-6	≤ 175 mm ³	Compliant	Compliant	Compliant	
	Compression strength	-	-	Not requested Wall covering	≥ 400 N/mm ²	≥ 400 N/mm ²	
	Linear thermal expansion	ISO 10545-8	ISO makes no provision for this test	$\alpha \leq 7 \cdot 10^{-6} \text{ } ^\circ\text{C}^{-1}$	$\alpha \leq 7 \cdot 10^{-6} \text{ } ^\circ\text{C}^{-1}$	$\alpha \leq 7 \cdot 10^{-6} \text{ } ^\circ\text{C}^{-1}$	
	Thermal shock resistance	ISO 10545-9	ISO makes no provision for this test	Resistant	Resistant	Resistant	
	Frost-resistance	ISO 10545-12	No alterations	Resistant	Resistant	Resistant	
	Chemical resistance	ISO 10545-13	As indicated by manufacturer	Refer to specific collection catalogue	Refer to specific collection catalogue	Refer to specific collection catalogue	
	Chemical resistance to household products	ISO 10545-13	UB min.	Refer to specific collection catalogue	Refer to specific collection catalogue	Refer to specific collection catalogue	
	Stain resistance	Refer to specific collection catalogue	Class 3 min.	Refer to specific collection catalogue	Refer to specific collection catalogue	Refer to specific collection catalogue	
	Size characteristics	Length and width	ISO 10545-2	± 0,6%	± 0,6%	± 0,6%	± 0,6%
		Straightness of sides		± 0,5%	± 0,2%	± 0,2%	± 0,2%
		Squareness of sides		± 0,6%	± 0,2%	± 0,2%	± 0,2%
		Flatness		± 0,5%	± 0,5%	± 0,5%	± 0,5%
		Thickness		± 5%	± 5%	± 5%	± 5%

* Average value referred to ceramic material only

** Average value referred to the all-in-one piece (slab and fiberglass mesh)

SLIP RESISTANCE

	SAFETY REQUIREMENTS	Test method	Reference requirement	Ratings SLIMTECH 3mm	Ratings SLIMTECH 3plus	Ratings SLIMTECH 5plus
	Dynamic coefficient of friction	B.C.R. Tortus	$\mu > 0,40$ L. 13/89 - M.D. 236/89 Leg. D. 503/96	Not required wall tiles	Refer to specific collection catalogue	Refer to specific collection catalogue
	Slip resistance	DIN 51130	R classification (slip angle α)	Not required wall tiles	Refer to specific collection catalogue	Refer to specific collection catalogue
		DIN 51097	A, B, C classification (slip angle α)			

REACTION TO FIRE REQUIREMENTS

	SAFETY REQUIREMENTS	Test method	Reference requirement	Ratings SLIMTECH 3mm	Ratings SLIMTECH 3plus	Ratings SLIMTECH 5plus
WALL INSTALLATION						
	Reaction to fire	ISO DIS 1182.2	Italian standard M.D. 14/01/85 M.D. 15/03/05	Class 0	Class 1	Class 1
	Reaction to fire	UNI EN 13823:2005	European standard Directive 89/106/CE Decision 2000/147/CE UNI EN 13501-1:2005	Class A1	Class A2 - s1,d0	Class A2 - s1,d0
FLOOR INSTALLATION						
	Reaction to fire	ISO DIS 1182.2	Italian standard M.D. 14/01/85 M.D. 15/03/05	Class 0	Class 1	Class 1
	Reaction to fire	UNI EN 13823:2005	European standard Directive 89/106/CE Decision 2000/147/CE UNI EN 13501-1:2005	Class A1 _f	Class A2 _{FL} - s1	Class A2 _{FL} - s1

THERMAL CHARACTERISTICS

	SAFETY REQUIREMENTS	Test method	Values SLIMTECH 3mm	Values SLIMTECH 3plus	Values SLIMTECH 5plus
	Heat conductivity	UNI EN 12524:2001	$\lambda = 1,3 \text{ W/m}^2\text{K}$ $\lambda = 1,1 \text{ kcal/mh}^\circ\text{C}$	$\lambda = 1,3 \text{ W/m}^2\text{K}$ $\lambda = 1,1 \text{ kcal/mh}^\circ\text{C}$	$\lambda = 1,3 \text{ W/m}^2\text{K}$ $\lambda = 1,1 \text{ kcal/mh}^\circ\text{C}$

PHYSICAL-MECHANICAL CHARACTERISTICS

	SAFETY REQUIREMENTS	Test method	Values SLIMTECH 3mm	Values SLIMTECH 3plus	Values SLIMTECH 5plus
	Tensile modulus (Young's Modulus)	-	55 - 60 GPa	55 - 60 GPa	55 - 60 GPa
	Density	-	2300 - 2500 kg/m ³	2300 - 2500 kg/m ³	2300 - 2500 kg/m ³
	Sound absorption coefficient α	UNI EN ISO 11654	0,01 - 0,02	0,01 - 0,02	0,01 - 0,02

8.1 - Technical characteristics

TECHNICAL CHARACTERISTICS							
	TECHNICAL CHARACTERISTIC	Test method		ANSI 137.1 Required value for unglazed porcelain tiles P1 Class	SLIMTECH 3mm Values	SLIMTECH 3plus Values	SLIMTECH 5plus Values
	Water absorption	ASTM C373		≤ 0.5%	Compliant	Compliant (*)	Compliant (*)
	Breaking strength (S)	ASTM C648		≥ 250 lbf	Not required Wall Tiles	Compliant (**)	Compliant (**)
	Deep abrasion resistance	ASTM C1243		≤ 175 mm ³	Compliant	Compliant	Compliant
	Compression strength	-		ANSI makes no provision for this test	≥ 56000 PSI	≥ 56000 PSI	≥ 56000 PSI
	Linear thermal expansion	ASTM C372		Not required	$\alpha \leq 8 \times 10^{-6} \text{ }^{\circ}\text{C}^{-1}$ $\alpha \leq 4.4 \times 10^{-6} \text{ }^{\circ}\text{F}^{-1}$	$\alpha \leq 8 \times 10^{-6} \text{ }^{\circ}\text{C}^{-1}$ $\alpha \leq 4.4 \times 10^{-6} \text{ }^{\circ}\text{F}^{-1}$	$\alpha \leq 8 \times 10^{-6} \text{ }^{\circ}\text{C}^{-1}$ $\alpha \leq 4.4 \times 10^{-6} \text{ }^{\circ}\text{F}^{-1}$
	Thermal shock resistance	ASTM C484		Not alteration	Resistant	Resistant	Resistant
	Frost-resistance	ASTM C1026		Not required	Resistant	Resistant	Resistant
	Chemical resistance	ASTM C650		Not required	Resistant	Resistant	Resistant
	Bond strength			≥ 50 PSI	Compliant	Compliant	Compliant
	Stain resistance	ASTM C1378		Not required	Resistant	Resistant	Resistant
	Dimensions	Warpage edge	ASTM C485	± 0.40% or max ± 0.05" for tiles up to 24"x24" or max ± 0.07" for tiles larger to 24"x24"	Compliant	Compliant	Compliant
		Warpage diagonal	ASTM C485	± 0.40% or max ± 0.07"	Compliant	Compliant	Compliant
		Nominal sizes	ASTM C499	- 3.0% / + 2.0% of nominal dimensions	± 0.5%	± 0.5%	± 0.5%
		Caliber range	ASTM C499	± 0.25% or max ± 0.03"	Compliant	Compliant	Compliant
		Thickness	ASTM C499	≤ 0.040"	≤ 0.030"	≤ 0.030"	≤ 0.030"
		Wedging	ASTM C502	± 0.25% or max ± 0.03"	Compliant	Compliant	Compliant

* Average value referred to ceramic material only.

** Average value referred to the all-in-one piece (slab and fiberglass mesh).

SLIP RESISTANCE

	SAFETY REQUIREMENTS	Test method	Reference requirement	Ratings SLIMTECH 3mm	Ratings SLIMTECH 3plus	Ratings SLIMTECH 5plus
	Static coefficient of friction (SCOF)	ASTM C 1028	SCOF < 0.50 questionable 0.50 ≤ SCOF < 0.60 conditionally slip resistant SCOF ≥ 0.60 slip resistant	Not required Wall tiles	Refer to specific collection catalogue	Refer to specific collection catalogue
	Dynamic coefficient of friction (DCOF)	ANSI 137.1:2012 (BOT 3000)	DCOF ≥ 0.42 (wet internal spaces)	Not required Wall tiles	Refer to specific collection catalogue	Refer to specific collection catalogue

THERMAL CHARACTERISTICS

	SAFETY REQUIREMENTS	Test method	SLIMTECH 3mm Values	SLIMTECH 3plus Values	SLIMTECH 5plus Values
	Thermal conductivity	UNI EN 12524:2001	$\lambda = 0.7 \text{ Btu/ft h}^\circ\text{F}$	$\lambda = 0.7 \text{ Btu/ft h}^\circ\text{F}$	$\lambda = 0.7 \text{ Btu/ft h}^\circ\text{F}$

8.2 - Tender specifications

Title	Description
Thickness	<p>SLIMTECH 3mm: 3 mm.</p> <p>SLIMTECH 3plus: 3,5 mm.</p> <p>SLIMTECH 5plus: 5,5 mm.</p>
Sizes	<p>SLIMTECH 3mm: refer to the collection catalogue</p> <p>SLIMTECH 3plus: refer to the collection catalogue</p> <p>SLIMTECH 5plus: refer to the collection catalogue</p>
Series and colours	Refer to the collection catalogue
Type of surface	Unglazed (UGL)
Shaping method	Pressing
Water absorption in accordance to EN ISO 10545.3	≤ 0,5% (*)
Classification in accordance to EN 14411/ISO 13006	Bla Group
Reference requirement specifications for first grade tiles	EN 14411/ISO 13006 Appendix G
Performance classification under	EN - ISO – DIN - BCRA
Declared safety features	<p>Slip resistance</p> <ul style="list-style-type: none"> • B.C.R. Tortus method: refer to the collection catalogue • DIN 51130 method: refer to the collection catalogue • DIN 51097 method: refer to the collection catalogue <p>Release of toxic/harmful substances under ISO 10545.15: none</p> <p>Fire-resistance (in accordance to Italian laws) (MD 14/01/85, MD 15/03/05, ISO/DIS 1182.2 method)</p> <ul style="list-style-type: none"> • SLIMTECH 3mm: class 0 • SLIMTECH 3plus: class 1 • SLIMTECH 5plus: class 1 <p>Fire-resistance (in accordance to EU standards) (Dir. 89/106/CE, Dec.2000/147/CE, UNI EN 13501-1:2005, UNI EN 13823:2005 method)</p> <ul style="list-style-type: none"> • SLIMTECH 3mm: class A1 (wall installation), class A1_f (floor installation) • SLIMTECH 3plus: class A2-s1,d0 (wall installation), class A2_f-s1 (floor installation) • SLIMTECH 5plus: class A2-s1,d0 (wall installation), class A2_f-s1 (floor installation)
Data for tender specifications	New ceramic mineral produced in 3000x1000 mm slabs of porcelain stoneware, obtained using raw materials of high quality and purity (light clay, feldspar fluxes and ceramic pigments with a high chromatic performance). After wet milling, the body is coloured and spray dried, then pressed by compacting on a belt with a force of 15,000 tons and fired at a temperature of 1200°C.

8.3 - Packages

ARENARIA SLIMTECH

Article	Boxes				Europallet			
	cm	inch	pz.	sq.mt.	kg	boxes	sq.mt.	kg
fondo 3mm	100x300	39"x118"	1	3,00	22,2	13 pc/pl	39,0	288,6
fondo 3plus	100x300	39"x118"	1	3,00	25,4	12 pc/pl	36,0	304,2
fondo 3plus	100x100	39"x39"	3	3,00	24,1	25	75,0	602,5
fondo 3mm	50x100	19 1/2"x39"	5	2,50	17,8	32	80,0	569,6
fondo 3plus	50x100	19 1/2"x39"	5	2,50	20,0	32	80,0	640,0
fondo 3plus	50x50	19 1/2"x19 1/2"	7	1,75	14,0	48	84,0	672,0
fondo 3mm	4,9x100	2"x39"	10	0,49	4,0	39	19,1	156,0
fondo 3plus	4,9x100	2"x39"	10	0,49	4,2	39	19,1	163,8
decoro bamboo 3mm	50x100	19 1/2"x39"	2	1,00	7,1	15	15,0	106,8
mosaico quadro	25x25	10"x10"	10	0,63	4,6	60	37,5	276,0
mosaico mattone	25x25	10"x10"	10	0,63	4,6	60	37,5	276,0
mosaico striscia	25x50	10"x19 1/2"	10	1,25	6,9	60	75,0	414,0
mosaico listello	25x50	10"x19 1/2"	10	1,25	6,9	60	75,0	414,0

BASALTINA STONE PROJECT SLIMTECH

Article	Boxes				Europallet			
	cm	inch	pz.	sq.mt.	kg	boxes	sq.mt.	kg
fondo 3mm	100x300	39"x118"	1	3,00	22,2	13 pc/pl	39,0	288,6
fondo 3plus	100x300	39"x118"	1	3,00	25,4	12 pc/pl	36,0	304,2
fondo 3plus	100x100	39"x39"	3	3,00	24,1	25	75,0	602,5
fondo 3mm	50x100	19 1/2"x39"	5	2,50	17,8	32	80,0	569,6
fondo 3plus	50x100	19 1/2"x39"	5	2,50	20,0	32	80,0	640,0
fondo 3plus	50x50	19 1/2"x19 1/2"	7	1,75	14,0	48	84,0	672,0
fondo 3mm	4,9x100	2"x39"	10	0,49	4,0	39	19,1	156,0
fondo 3plus	4,9x100	2"x39"	10	0,49	4,2	39	19,1	163,8
mosaico quadro	25x25	10"x10"	10	0,63	4,6	60	37,5	276,0
mosaico mattone	25x25	10"x10"	10	0,63	4,6	60	37,5	276,0
mosaico striscia	25x50	10"x19 1/2"	10	1,25	6,9	60	75,0	414,0
mosaico listello	25x50	10"x19 1/2"	10	1,25	6,9	60	75,0	414,0
mosaico metal	50x100	19 1/2"x39"	2	1,00	9,9	25	25,0	247,6
mosaico glitter	50x100	19 1/2"x39"	2	1,00	8,8	25	25,0	220,8
mosaico inox	25x25	10"x10"	10	0,63	4,6	60	37,5	276,0
mosaico satin	25x25	10"x10"	10	0,63	4,6	60	37,5	276,0
mosaico pearl	25x25	10"x10"	10	0,63	4,6	60	37,5	276,0

GOUACHE.10 SLIMTECH

Article	Boxes				Europallet			
	cm	inch	pz.	sq.mt.	kg	boxes	sq.mt.	kg
fondo 3mm	100x300	39"x118"	1	3,00	22,2	13 pc/pl	39,0	288,6
fondo 3plus	100x300	39"x118"	1	3,00	25,4	12 pc/pl	36,0	304,2
fondo 3plus	100x100	39"x39"	3	3,00	24,1	25	75,0	602,5
fondo 3mm	50x100	19 1/2"x39"	5	2,50	17,8	32	80,0	569,6
fondo 3plus	50x100	19 1/2"x39"	5	2,50	20,0	32	80,0	640,0
fondo 3plus	50x50	19 1/2"x19 1/2"	7	1,75	14,0	48	84,0	672,0
fondo 3plus	4,9x100	2"x39"	10	0,49	4,2	39	19,1	163,8
decoro libeccio	15,4x22,3	6 1/8"x8 3/4"	10	0,34	2,8	80	27,5	224,0

LINES SLIMTECH

Article	Boxes				Europallet			
	cm	inch	pz.	sq.mt.	kg	boxes	sq.mt.	kg
fondo 3plus	100x300	39"x118"	1	3,00	25,4	12 pc/pl	36,0	304,2

8.3 - Packages

MAUK SLIMTECH

Article	Boxes				Europallet			
	cm	inch	pz.	sq.mt.	kg	boxes	sq.mt.	kg
cuadra 3plus	57,6	225/8"	6	1,73	15,5	5	8,6	77,5
esa 3plus	38,3	151/8"	12	0,77	6,4	20	15,4	127,0
spina 3mm	25,8x13,5x8,7	10 ¹ / ₈ "x5 ³ / ₈ "x3 ³ / ₈ "	15	0,18	1,5	80	14,8	120,0

RE-evolution SLIMTECH

Article	Boxes				Europallet			
	cm	inch	pz.	sq.mt.	kg	boxes	sq.mt.	kg
fondo 3mm	100x300	39"x118"	1	3,00	22,2	13 pc/pl	39,0	288,6
fondo 3plus	100x300	39"x118"	1	3,00	25,4	12 pc/pl	36,0	304,2
fondo 3plus	100x100	39"x39"	3	3,00	24,1	25	75,0	602,5
fondo 3mm	50x100	19 ¹ / ₂ "x39"	5	2,50	17,8	32	80,0	569,6
fondo 3plus	50x100	19 ¹ / ₂ "x39"	5	2,50	20,0	32	80,0	640,0
fondo 3plus	50x50	19 ¹ / ₂ "x19 ¹ / ₂ "	7	1,75	14,0	48	84,0	672,0
fondo 3plus	4,9x100	2"x39"	10	0,49	4,2	39	19,1	163,8
cornice	5,5x50	2 ¹ / ₈ "x19 ¹ / ₂ "	6	0,17	2,4	-	-	-
battiscopa	12x50	4 ³ / ₄ "x19 ¹ / ₂ "	6	3,6 m.l.	4,2	-	-	-

SHADE SLIMTECH

Article	Boxes				Europallet			
	cm	inch	pz.	sq.mt.	kg	boxes	sq.mt.	kg
fondo 3mm	100x300	39"x118"	1	3,00	22,2	13 pc/pl	39,0	288,6
fondo 3plus	100x300	39"x118"	1	3,00	25,4	12 pc/pl	36,0	304,2
fondo 3plus	100x100	39"x39"	3	3,00	24,1	25	75,0	602,5
fondo 3mm	50x100	19 ¹ / ₂ "x39"	5	2,50	17,8	32	80,0	569,6
fondo 3plus	50x100	19 ¹ / ₂ "x39"	5	2,50	20,0	32	80,0	640,0
fondo 3plus	50x50	19 ¹ / ₂ "x19 ¹ / ₂ "	7	1,75	14,0	48	84,0	672,0
fondo 3plus	4,9x100	2"x39"	10	0,49	4,2	39	19,1	163,8

STREETS IN SHADE SLIMTECH

Article	Boxes				Europallet			
	cm	inch	pz.	sq.mt.	kg	boxes	sq.mt.	kg
decoro streets 3mm	50x100	19 ¹ / ₂ "x39"	2	1,00	7,1	30	30,0	213,6

STUDIES IN GOUACHE SLIMTECH

Article	Boxes				Europallet			
	cm	inch	pz.	sq.mt.	kg	boxes	sq.mt.	kg
decoro grid 3plus	50x100	19 ¹ / ₂ "x39"	3	1,50	11,0	30	45,0	330,0
decoro knit 3plus	50x100	19 ¹ / ₂ "x39"	3	1,50	11,0	30	45,0	330,0
decoro moire b 3plus	50x100	19 ¹ / ₂ "x39"	3	1,50	11,0	30	45,0	330,0
decoro scratch 3plus	50x100	19 ¹ / ₂ "x39"	3	1,50	11,0	30	45,0	330,0

TYPE-32 SLIMTECH

Article	Boxes				Europallet			
	cm	inch	pz.	sq.mt.	kg	boxes	sq.mt.	kg
fondo 5plus	20x200	8"x79"	3	1,20	15,0	40	48,0	600,0

WAVES SLIMTECH

Article	Boxes				Europallet			
	cm	inch	pz.	sq.mt.	kg	boxes	sq.mt.	kg
fondo 3plus	100x300	39"x118"	1	3,00	25,4	12 pc/pl	36,0	304,2

WOOD-STOCK SLIMTECH

Article	Boxes				Europallet			
	cm	inch	pz.	sq.mt.	kg	boxes	sq.mt.	kg
fondo 5plus	33x300	13"x118"	1	0,99	12,5	24 pc/pl	23,8	299,7
fondo 5plus	20x200	8"x79"	3	1,20	15,0	40	48,0	600,0
fondo 5plus	20x150	8"x59"	3	0,90	11,3	60	54,0	675,0
fondo 5plus	20x100	8"x39"	3	0,60	7,5	60	36,0	450,0

Information regarding packaging

All information regarding packaging in this catalogue are considered purely indicative and subject to change.

Useful contacts

The companies mentioned in this manual are our own choices and are therefore recommended but not an obligatory choice.

Adhesives

MAPEI S.p.A.

Via Cafiero 22
20158 (MI) - Italy
Tel. +39 02 37673
www.mapei.it

KERAKOLL S.p.A

Via dell'Artigianato, 9
41049 Sassuolo (MO) - Italy
Tel. +39 0536 811516
www.kerakoll.com

LATICRETE S.r.l.

Piazza Martiri, 7
19020 Brugnato (SP) - Italy
Tel. +39 0187 897470
Fax +39 0187 896881
e-mail info@laticrete.it
www.laticrete.it

LITOKOL S.p.A

Via G. Falcone, 13/1
42048 Rubiera (RE) - Italy
Tel. +39 0522 622811
Fax. +39 0522 620150
e-mail info@litokol.it
www.litokol.it

WEBER SAINT-GOBAIN

Via Sacco e Vanzetti, 54
41042 Fiorano Modenese (MO) - Italia
Tel. +39 0536 837111
e-mail info@e-weber.it
www.e-weber.it

PCI - BASF Construction Chemicals Italia S.p.A

Via Vicinale delle corti, 21
31100 Treviso (TV) - Italy
Tel. +39 0422 304251
e-mail info@vittoriorossi.it
www.basf-cc.it

ARDEX S.r.l

Via Alessandro Volta, 73 (Località Pigna)
25015 Desenzano del Garda - Italy
Tel. +39 0309 119952
www.ardex.it

Profiles and trim pieces

PROFILITEC S.p.a.

Via Brescia, 42
36040 Torri di Quartesolo (VI) - Italy
Tel. +39 0444 268311
Fax +39 0444 268310
www.profilitec.com

SCHLÜTER-SYSTEMS Italia S.r.l.

Via Bucciardi 31/33
41042 Fiorano Modenese (MO)
Tel. +39 0536 914511
Fax +39 0536 911156
www.schlueter.it

PROGRESS PROFILES S.p.A.

Via Le Marze, 7
31011 Asolo (TV) - Italy
Tel. +39 0423 950398
Fax +39 0423 950979
www.progressprofiles.com

PROFILPAS S.p.A.

Via Einstein, 38
35010 Cadoneghe (PD) - Italy
Tel. +39 049 8878411
Fax +39 049 706692
www.profilpas.com

DURAL GmbH & Co.

Via Oberdan, 11
40126 Bologna (BO) - Italy
Tel. +39 051 0971513
Fax +39 051 0971513
www.dural.com

WEDI ITALIA S.r.l.

Via Redipuglia, 32
20035 Lissone (MI) - Italy
Tel. +39 0392 459420
www.wedi.it

RARE S.r.l

Via delle Brughiere, 12
21050 Cairate (VA) - Italy
Tel. +39 0331 360360
Fax +39 0331 360168
www.rareboxdoccia.com

Cleaners

MAPEI S.p.A.

Via Cafiero 22
20158 (MI) - Italy
Tel. +39 02 37673
www.mapei.it

FABERCHIMICA S.r.l.

via G. Ceresani, 10 - Località Campo d'Olmo
60044 Fabriano (AN) - Italy
Tel. +39 0732 627178
www.faberchimica.com

FILA Industria Chimica S.p.A.

via Garibaldi, 32
35018 S. Martino dei Lupari (PD) - Italy
Tel. +39 049 9467300
www.filachim.it

ZEP Italia S.r.l.

via Nettunese, Km 25,000
04011 Aprilia (LT) - Italy
Tel. +39 06 926691
www.zepitalia.it

JOHNSON DIVERSEY S.p.A.

via Meucci, 40
20128 Milan - Italy
Tel. +39 0373 2051
www.johnsondiversey.com

KITER S.r.l.

via Assiano, 7/B
20019 Settimo Milanese (MI) - Italy
Tel. +39 02 3285220
www.kiter.it

GEAL S.r.l.

via Settola, 121
51031 Agliana (PT) - Italy
Tel. +39 0574 750365
www.geal-chim.it

FEDERCHEMICALS S.r.l.

via G. Borsi, 2
25128 - Brescia - Italy
Tel. +39 030 3390880
Fax +39 030 3385580
www.federchemicals.it

Cleanders

LITHOFIN-Produkte GmbH

Postfach 1134,
D-73236 Wendlingen (D)
Tel. 0049 07024/940320
www.lithofin.de
Vertrieb für Österreich:
CT-Austria Ges.m.b.H. A-1230 Wien
Tel. +43 01 8673434

HMK - MÖLLER-CHEMIE

Benelux GmbH - Linge 4
NL-2105 WB Heemstede (NL)
Tel. +31 0252 220222
www.moellerchemie.de

BONASYSTEMS ITALIA S.r.l.

Via Borgo S. Chiara, 29
30020 Torre di Mosto (VE) - Italy
Tel. +39 0421 325691
Fax +39 0421 324232
www.bonasytemsitalia.it

LITOKOL S.p.A

Via G. Falcone, 13/1
42048 Rubiera (RE) - Italy
Tel. +39 0522 622811
Fax. +39 0522 620150
e-mail info@litokol.it
www.litokol.it

Cushioning for insulation against sound, etc.

SCHLÜTER-SYSTEMS Italia S.r.l.

Via Bucciardi 31/33
41042 Fiorano Modenese (MO)
Tel. +39 0536 914511
Fax +39 0536 911156
www.schlueter.it

GUTJAHR Systemtechnik GmbH

Philipp-Reis-Str. 5-7
D-64404 Bickenbach/Bergstraße
Tel. +49 0 62 57 - 93 06-0
Fax +49 0 62 57 - 93 06-31
www.gutjahr.com

MAPEI S.p.A.

Via Cafiero 22
20158 (MI) - Italy
Tel. +39 02 37673
www.mapei.it

Notched and rubber coated trowels

RAIMONDI S.r.l.

Via Dalla Casta, 300/A
41100 Modena (MO) - Italy
Tel. +39 059 280888
Fax +39 059 282808
www.raimondiutensili.it

Plaster

FASSA BORTOLO S.p.A.

via Lazzaris, 3
31027 Spresiano (TV) - Italy
Tel. +39 0422 7222
Fax +39 0422 887509
www.fassabortolo.com

GRIGOLIN S.p.A.

Via IV Novembre, 18
31010 Ponte della Priula (TV) - Italy
Tel. +39 0438 4461
Fax +39 0438 445110
www.gruppogrigolin.it

Cutting discs / diamond and abrasive discs / Drill bits

DIAMANT CENTER - TYROLIT S.r.l.

Via Valle d'Aosta, 12
41049 Sassuolo (MO) - Italy
Tel. +39 0536 808166
Fax +39 0536 808211
www.diamantcenter.it

MONTOLIT S.p.A.

Via Turconi, 25
21050 Cantello (VA) - Italy
Tel. +39 0332 419211/417744
e-mail info@montolit.com
www.montolit.com

RAIMONDI S.r.l.

Via Dalla Casta, 300/A
41100 Modena (MO) - Italy
Tel. +39 059 280888
Fax +39 059 282808
www.raimondiutensili.it

Cutting discs / Diamond and abrasive discs / Drill bits

RUBI ITALIA S.r.l.

Via Radici in Piano, 596/A
41049 Sassuolo (MO) - Italy
Tel. +39 0536 810984
Fax +39 0536 810987
e-mail rubitalia@rubi.com

WÜRTH S.r.l.

Via Stazione, 51
39044 Egna (BZ) - Italy
Tel. +39 06 90779001
Fax +39 06 90386201
e-mail clienti@wuerrth.it

**Tile cutters / Glass cutters
Abrasive sponges**

BOHLE ITALIA S.r.l.

Via Cavallotti, 28
20081 Abbiategrasso (MI) - Italy
Tel. +39 02 94967790
Fax +39 02 94609011
e-mail Italia@Bohle.de

WÜRTH S.r.l.

Via Stazione, 51
39044 Egna (BZ) - Italy
Tel. +39 06 90779001
Fax +39 06 90386201
e-mail clienti@wuerrth.it

Tile cutter rulers

SIGMA S.n.c.

Via A. Gagliani, 4
47813 Igea Marina Bellaria (RN) - Italy
Tel. +39 0541 330103
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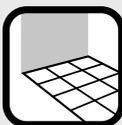
Adhesives attachment

As a general rule that applies for all building materials to be secured in place with adhesive, there is no universal adhesive for installing SLIMTECH on all kinds of surface.

Since it is not possible to describe all possible cases, we have provided information about the most common situations. First of all, we have divided installation cases into "walls" and "floors" and then into "interior" and "exterior". Depending on the rated stress, on any work to be performed subsequently and on the maximum dimension of the slab, we have assigned a certain type of SLIMTECH to each category. Starting from this classification, we have thus examined the most common kinds of supporting material. The resulting chart has been sent to all main manufacturers of adhesives that have, in turn, provided the most suitable product for each category.

Please note that all solutions suggested have been submitted by adhesive manufacturers, who guarantee the indications given. For explanations or more information, contact the respect manufacturers (see "9 - Useful contacts").

It is essential to follow all instructions given by adhesive manufacturers. This applies in particular to waiting time running before a surface can be walked on or grouted and the "Ready to use" time shown in the following tables.

 WALL INSTALLATION (*) For NEW BUILDINGS and REFURBISHING, for installation on pre-existing walls				
 Interiors	Any residential and commercial environment, in situations where holes and/or cuts are not necessary.	SLIMTECH 3mm	Two-coat plaster, gypsum plaster, plasterboard, fibre cement panels	Page 40
			Concrete, old ceramic tile, marble, stone	Page 41
			Particle board, metal	Page 42
	Any residential and commercial environment, in situations where holes and/or cuts are necessary.	SLIMTECH 3plus SLIMTECH 5plus	Two-coat plaster, gypsum plaster, plasterboard, fibre cement panels	Page 43
			Concrete, old ceramic tile, marble, stone	Page 44
			Particle board, metal	Page 45
 Exteriors	In situations where holes and/or cuts are not necessary and with sizes up to 100 x 100 cm.	SLIMTECH 3mm SLIMTECH 5plus	Plaster	Page 46
			Concrete	Page 47
	In situations where holes and/or cuts are necessary and/or for large sizes.	SLIMTECH 3plus SLIMTECH 5plus	Plaster	Page 48
			Concrete	Page 49
 FLOOR INSTALLATION (*) For NEW BUILDINGS and REFURBISHING, for installation on pre-existing floors				
 Interiors	Residential (kitchens, bathrooms, living rooms, common apartment block areas and any other residential environment).	SLIMTECH 3plus SLIMTECH 5plus	Cement-based screeds, calcium sulphate-based or heated screeds, self-levelling products, concrete, old ceramic tile, marble slabs, stone	Page 50
	Light commercial (offices, offices open to the general public, waiting rooms, shops, bathrooms, restaurant dining rooms, car showrooms, bars, cinemas, surgeries/clinics).		Wood, PVC, rubber, linoleum, metal, resin	Page 51
	Intensive commercial (common areas of shopping centres, hotel halls, canteens, fast food restaurants, dance clubs, hospitals) with the exception of areas subject to heavy concentrated loads (e.g. trolleys with hard wheels).	SLIMTECH 5plus	Cement-based screeds, calcium sulphate-based or heated screeds, self-levelling products, concrete, old ceramic tile, marble slabs, stone	Page 50
 Exteriors	Upon condition that surfaces are sheltered (e.g. loggias, covered balconies, etc.) and made totally impervious. The use of sizes that are not larger than 50x50 cm is recommended.	SLIMTECH 3plus SLIMTECH 5plus	Cement-based screeds, calcium sulphate-based or heated screeds, self-levelling products, concrete, old ceramic tile, marble slabs, stone	Page 50
			Wood, PVC, rubber, linoleum, metal, resin	Page 51

(*) Products with special finishes can have limitations depending on their area of application. Refer to specific collection catalogues.

How to read the **attachment**

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Setting for foot traffic and workability (***)	Ready for use (***)	Installation (*)
01	02	03	04	05	06	07	08	09	10	11

- 01**_ The installation supervisor must examine the conditions of the work site to choose between a normal setting adhesive or a quick setting
- 02**_ List of adhesive manufacturers.
- 03**_ Depending on the adhesive recommended by the manufacturer, you will find the size in cm of the slab.
- 04**_ List of adhesives recommended by manufacturers based on the intended use and size of slabs.
- 05**_ List of primers to use before adhesive application, as indicated by manufacturers for each intended use.
- 06**_ The mixing ratio refers to a single product unit (a bag, a can, etc.), in order to obtain the characteristics declared by manufacturers.
- 07**_ The adhesive's class under the UNI EN 12004 standard is indicated (see Sheet below "About ADHESIVES").
- 08**_ You will find an indication of how many square metres you can install with a single product unit prepared with the established mixing ratio.
- 09**_ You will find the time that must pass before treading on the surface to fill joints with grout.
- 10**_ You will find the time that must pass before using the floor, i.e. before it can go subject to static and/or dynamic stress.
- 11**_ You will find the installation method and features of the trowel to use for each adhesive.

About ADHESIVES

Adhesives are divided into THREE CLASSES, depending on their composition, as established by the UNI EN 12004 standard:

CEMENTITIOUS (**C**): mixture of hydraulic binding agents, aggregates and organic additives (note to be mixed with water or other liquid additive immediately before use)

REACTIVE (**R**): mixture of synthetic resin, mineral fillers and organic additives, which harden due to a chemical reaction (note: these adhesives may have one or more components)

DISPERSION (**D**): mixture of binding and organic agents, namely polymers in aqueous dispersion, organic additives and mineral fillers (note: ready-to-use mixtures)

Depending on their features, adhesives are thus classified:

Class **1**: normal setting

Class **2**: improved setting properties

There are three additional classes:

Class **F**: quick setting adhesives

Class **T**: slip resistant adhesives

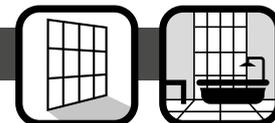
Class **E**: adhesives with extended open time

There is a fourth additional class for cementitious adhesives only: adhesives can be classified as DEFORMABLE (S) and divided on the basis of test results under the UNI EN 12002 standard:

Class **S1**: deformable adhesives

Class **S2**: highly deformable adhesives

A.1a - Wall installation in interiors of SLIMTECH 3mm



Supporting material: two-coat plaster, gypsum plaster, plasterboard, fibre cement panels.

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)
 <p>For situations in which a normal setting adhesives is recommended</p>	MAPEI	50x50; 100x40; 100x50	KERAFLEX MAXI S1	Compulsory for gypsum-based, anhydride or absorbent surfaces: Primer G or ECOPRIM T	1 bag (25 kg) + 7,2/7,7 litres of water	C2 TE S1	7 m ²	8 hours	14 days	Installation with a double layer of adhesive
			ULTRALITE S1		1 bag (15 kg) + 8,4/8,7 litres of water	C2 TE S1				
		100x100; 300x100	ULTRALITE S2		1 bag (15 kg) + 5,9/6,2 litres of water	C2 E S2	6,3 m ²			
			KERABOND + ISOLASTIC		1 bag (25 kg) + 8,5 kg of ISOLASTIC	C2 E S2				
	KERAKOLL	All sizes	H40 NO LIMITS	For gypsum-based surfaces: Primer A Eco	Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water	C2 TE S1	6 m ²	20 hours	3 days	
					White 1 bag (25 kg) from 7,2 to 9,5 litres of water					
	LATICRETE	All sizes	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m ²	1 day	14 days	
	LITOKOL	All sizes	SUPERFLEX K77	For gypsum-based surfaces: Primer C	1 bag (25 kg) + 8,5 litres of water	C2 TE S1	6 m ²	8 hours	14 days	
	PCI - BASF	All sizes	PCI NANOLIGHT	For gypsum-based surfaces: PCI GISOGRUND	1 bag (15 kg) + 9 litres of water	C2 TE S1	5,5 m ²	8 hours	1 day	
	SAINT-GOBAIN / WEBER	All sizes	WEBER.COL PRO HP	For gypsum-based surfaces: WEBER.PRIM PF15	1 bag (25 kg) + 7 litres of water	C2 TE S1	5 m ²	8 hours	14 days	
1 bag (15 kg) + 8 litres of water					C2 TE S2			1 day		
ARDEX	All sizes	ARDEX X 77 Microtec	For gypsum-based surfaces: ARDEX P 51	1 bag (25 kg) + 11 litres of water	C2 T(T) E(E) S1	10 m ²	8 hours	1 day	Installation with a single-layer of adhesive (6 mm trowel)	
 <p>For situations in which a quick setting adhesive is recommended</p>	MAPEI	50x50; 100x40; 100x50	GRANIRAPID	COMPULSORY for gypsum-based, anhydride or absorbent surfaces: Primer G or ECOPRIM T	Component A: 1 bag (25 kg) Component B: tub (5,5 kg)	C2 F S1	6 m ²	3 hours	1 day	Installation with a double layer of adhesive
			ULTRALITE S1 QUICK		1 bag (15 kg) + 5,1/5,7 litres of water	C2 FTE S1				
		100x100; 300x100	ULTRALITE S2 QUICK		Component A: 1 bag (25 kg) Component B: tub (6,5 kg)	C2 FTE S2	6 m ²			
			ELASTORAPID							
	KERAKOLL	All sizes	H40 ECO RAPIDFLEX	For gypsum-based surfaces: Primer A Eco	1 bag (25 kg) + 6,3 litres of water	C2F TE S1	6 m ²	3 hours	2 days	
	LATICRETE	All sizes	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m ²	6 hours	2 days	
	LITOKOL	All sizes	LITOSTONE K99 + LATEXKOL + water	For gypsum-based surfaces: Primer C	1 bag (25 kg) + 3,5 litres of LATEXKOL + 3,5 litres of water	C2 FE S1	5 m ²	4 hours	1 day	
	PCI - BASF	All sizes	PCI NANOLIGHT	For gypsum-based surfaces: PCI GISOGRUND	1 bag (15 kg) + 9 litres of water	C2 TE S1	5,5 m ²	8 hours	1 day	
	SAINT-GOBAIN / WEBER	All sizes	WEBER.COL PRO MARMO + WEBER L50	For gypsum-based surfaces: WEBER.PRIM PF15	1 bag (25 kg) + 7 litres of WEBER L50	C2 FT S1	5 m ²	4 hours	3 days	
					1 bag (25 kg) + 6-6,5 litres of WEBER L50					
ARDEX	All sizes	ARDEX X 77 S microtec	For gypsum-based surfaces: ARDEX P 51	1 bag (25 kg) + 8,5 litres of water	C2 FT(T) E S1	10 m ²	90 min.	6 hours	Installation with a single layer of adhesive (6 mm trowel)	

(*) Instructions provided directly by manufacturers, who guarantee the information given.

For explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

(**) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary.

For explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

(***) Ratings provided directly by manufacturers, who guarantee the information given, are based on laboratory tests performed at 23° C and with a relative humidity of 50%.

In the event of use in different situations or for explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

A.1b - Wall installation in interiors of SLIMTECH 3mm



Supporting material: concrete, old ceramic tile, marble, stone

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)
 <p>For situations in which a normal setting adhesives is recommended</p>	MAPEI	50x50; 100x40; 100x50	KERAFLEX MAXI S1	If levelling is necessary, on the above mentioned supports, apply the following product beforehand ECOPRIM GRIP	1 bag (25 kg) + 7,2/7,7 litres of water	C2 TE S1	7 m ²	8 hours	14 days	Installation with a double layer of adhesive
			ULTRALITE S1		1 bag (15 kg) + 8,4/8,7 litres of water	C2 TE S1				
		100x100; 300x100	ULTRALITE S2		1 bag (15 kg) + 5,9/6,2 litres of water	C2 E S2	6,3 m ²			
			KERABOND + ISOLASTIC		1 bag (25 kg) + 8,5 kg of ISOLASTIC	C2 E S2	6,5 m ²			
	KERAKOLL	All sizes	H40 NO LIMITS	Not necessary, according to manufacturer	Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water	C2 TE S1	6 m ²	20 hours	3 days	
					White 1 bag (25 kg) from 7,2 to 9,5 litres of water					
	LATICRETE	All sizes	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m ²	1 day	7 days	
	LITOKOL	All sizes	SUPERFLEX K77	Not necessary, according to manufacturer	1 bag (25 kg) + 8,5 litres of water	C2 TE S1	6 m ²	8 hours	7 days	
	PCI - BASF	All sizes	PCI NANOLIGHT	On non-absorbent supports PCI GISOGRUND 303	1 bag (15 kg) + 9 litres of water	C2 TE S1	5,5 m ²	8 hours	1 day	
	SAINT-GOBAIN / WEBER	50x50; 100x40; 100x50	WEBER.COL PRO HP	For old ceramic tile, marble slabs and stone: WEBER. FLOOR 4716 Prime	1 bag (25 kg) + 7 litres of water	C2 TE S1	5 m ²	8 hours	14 days	
100x100; 300x100		WEBER.COL PRO HP + WEBER L50	1 bag (15 kg) + 7 litres of WEBER L50		C2 TE S2					
ARDEX	All sizes	ARDEX X 77 Microtec	As an alternative for old ceramic tile, marble slabs and stone: ARDEX P 4 - ARDEX X 77 (rough levelled)	1 bag (25 kg) + 11 litres of water	C2 T(T) E(E) S1	10 m ²	8 hours	1 day	Installation with a single layer of adhesive (6 mm trowel)	
 <p>For situations in which a quick setting adhesive is recommended</p>	MAPEI	50x50; 100x40; 100x50	GRANIRAPID	If levelling is necessary, on the above mentioned supports, apply the following product beforehand ECOPRIM GRIP	Component A: 1 bag (25 kg) Component B: tub (5,5 kg)	C2 F S1	6 m ²	3 hours	1 day	Installation with a double layer of adhesive
			ULTRALITE S1 QUICK		1 bag (15 kg) + 5,1/5,7 litres of water	C2 FTE S1				
		100x100; 300x100	ULTRALITE S2 QUICK		Component A: 1 bag (25 kg) Component B: tub (6,5 kg)	C2 FE S2	7 m ²			
			ELASTORAPID		Component A: 1 bag (25 kg) Component B: tub (6,5 kg)	C2 FTE S2	6 m ²			
	KERAKOLL	All sizes	H40 ECO RAPIDFLEX	Not necessary, according to manufacturer	1 bag (25 kg) + 6,3 litres of water	C2 FE S1	6 m ²	3 hours	2 days	
	LATICRETE	All sizes	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m ²	6 hours	2 days	
	LITOKOL	All sizes	LITOSTONE K99 + LATEXKOL + water	For gypsum-based surfaces: Primer C	1 bag (25 kg) + 3,5 litres of LATEXKOL + 3,5 litres of water	C2 FE S1	5 m ²	4 hours	1 day	
	PCI - BASF	All sizes	PCI NANOLIGHT	On non-absorbent supports PCI GISOGRUND 303	1 bag (15 kg) + 9 litres of water	C2 TE S1	5,5 m ²	8 hours	1 day	
	SAINT-GOBAIN / WEBER	All sizes	WEBER.COL PRO MARMO + WEBER L50	For old ceramic tile, marble slabs and stone: WEBER. FLOOR 4716 Prime	1 bag (25 kg) + 7 litres of WEBER L50	C2 FT S1	5 m ²	4 hours	3 days	
			WEBER.COL PRO RAPID + WEBER L50		1 bag (25 kg) + 6-6,5 litres of WEBER L50					
ARDEX	All sizes	ARDEX X 77 S microtec	As an alternative for old ceramic tile, marble slabs and stone: ARDEX P 4 - ARDEX X 77 (rough levelled)	1 bag (25 kg) + 8,5 litres of water	C2 FT(T) E S1	10 m ²	90 min.	6 hours	Installation with a single layer of adhesive (6 mm trowel)	

(*) Instructions provided directly by manufacturers, who guarantee the information given.

For explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

(**) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary.

For explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

(***) Ratings provided directly by manufacturers, who guarantee the information given, are based on laboratory tests performed at 23° C and with a relative humidity of 50%.

In the event of use in different situations or for explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

A.1c - Wall installation in interiors of SLIMTECH 3mm



Supporting material: particle board, metal

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)	
 For situations in which a normal setting adhesives is recommended	MAPEI	All sizes	KERALASTIC	Not necessary, according to manufacturer	1 can (10 kg)	R2	3 m ²	12 hours	7 days	Installation with a double layer of adhesive	
			KERALASTIC T		1 can (10 kg)	R2T					
	KERAKOLL	All sizes	H40 NO LIMITS		KERAGRIP ECO	Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water	C2 TE S1	6 m ²	20 hours		3 days
						White 1 bag (25 kg) from 7,2 to 9,5 litres of water					
	LATICRETE	All sizes	LATALASTIK	Not necessary, according to manufacturer	1 bucket of component A (5 kg) 1 bucket of component B (2 kg)	R2T	3 m ²	1 day	7 days		
	LITOKOL	All sizes	LITOELASTIC	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	5 days		
	PCI - BASF	All sizes	PCI NANOLIGHT	Use of the following product is compulsory: PCI GISOGRUN 303	1 bag (15 kg) + 9 litres of water	C2 TE S1	5,5 m ²	8 hours	1 day		
SAINT-GOBAIN / WEBER	All sizes	FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	2 days	Installation with a single-layer of adhesive (6 mm trowel)		
ARDEX	All sizes	ARDEX X 77 microtec	ARDEX P 82	1 bag (25 kg) + 11 litres of water	C2 T(T) E(E) S1	10 m ²	8 hours	1 day			
 For situations in which a quick setting adhesive is recommended	MAPEI	All sizes	KERAQUICK + LATEX PLUS	Not necessary, according to manufacturer	1 bag (25 kg) + 8,5 kg of LATEX PLUS	C2 FT S2	7 m ²	3 hours	1 day	Installation with a double layer of adhesive	
	KERAKOLL	All sizes	H40 ECO RAPIDFLEX	keragrip eco	1 bag (25 kg) + 6,3 litres of water	C2F TE S1	6 m ²	3 hours	2 days		
	LATICRETE	All sizes	LATALASTIK	Not necessary, according to manufacturer	1 bucket of component A (5 kg) 1 bucket of component B (2 kg)	R2T	2 m ²	1 day	7 days	Installation with a single layer of adhesive (6 mm trowel)	
	LITOKOL	All sizes	LITOELASTIC	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	5 days	Installation with a double layer of adhesive	
	PCI - BASF	All sizes	PCI NANOLIGHT	Use of the following product is compulsory: PCI GISOGRUN 303	1 bag (15 kg) + 9 litres of water	C2 TE S1	5,5 m ²	8 hours	1 day		
	SAINT-GOBAIN / WEBER	All sizes	WEBER.COL FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	2 days	Installation with a single-layer of adhesive (6 mm trowel)	
	ARDEX	All sizes	ARDEX X 77 S microtec	ARDEX P 82	1 bag (25 kg) + 8,5 litres of water	C2 FT(T) E S1	10 m ²	90 min.	6 hours		

(*) Instructions provided directly by manufacturers, who guarantee the information given.

For explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

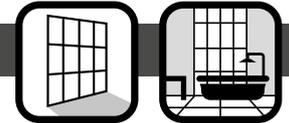
(**) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary.

For explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

(***) Ratings provided directly by manufacturers, who guarantee the information given, are based on laboratory tests performed at 23° C and with a relative humidity of 50%.

In the event of use in different situations or for explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

A.2a - Wall installation in interiors of SLIMTECH 3plus and SLIMTECH 5plus



Supporting material: two-coat plaster, gypsum plaster, plasterboard, fibre cement panels

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)
 <p>For situations in which a normal setting adhesives is recommended</p>	MAPEI	50x50; 100x40; 100x50	KERAFLEX MAXI S1	COMPULSORY for gypsum-based, anhydride or absorbent surfaces: Primer G or ECOPRIM T	1 bag (25 kg) + 7,2/7,7 litres of water	C2 TE S1	7 m ²	8 hours	14 days	Installation with a double layer of adhesive
			ULTRALITE S1		1 bag (15 kg) + 8,4/8,7 litres of water	C2 TE S1				
		100x100; 300x100	ULTRALITE S2		1 bag (15 kg) + 5,9/6,2 litres of water	C2 E S2	6,3 m ²			
			KERABOND + ISOLASTIC		1 bag (25 kg) + 8,5 kg of ISOLASTIC	C2 E S2	6,5 m ²			
	KERAKOLL	All sizes	H40 NO LIMITS	For gypsum-based surfaces: Primer A Eco	Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water White 1 bag (25 kg) from 7,2 to 9,5 litres of water	C2 TE S1	6 m ²	20 hours	3 days	
	LATICRETE	All sizes	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m ²	1 day	7 days	
	LITOKOL	50x50; 100x40; 100x50	SUPERFLEX K77	For gypsum-based surfaces: Primer C	1 bag (25 kg) + 8,5 litres of water	C2 TE S1	6 m ²	8 hours	7 days	
			CEMENTKOL K21 + LATEXKOL		1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 S2	5 m ²			
	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	For gypsum-based surfaces: PCI GISOGRUND	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2 TE S2	5,5 m ²	8 hours	1 day	
	SAINT-GOBAIN / WEBER	All sizes	WEBER.COL PRO HP	For gypsum-based surfaces: WEBER.PRIM PF15	1 bag (25 kg) + 7 litres of water	C2 TE S1	5 m ²	8 hours	14 days	
WEBER.COL PRO HF LIGHT			1 bag (15 kg) + 8 litres of water		C2 TE S2	1 day				
ARDEX	All sizes	ARDEX X 77 microtec + ARDEX E 90	For gypsum-based surfaces: ARDEX P 51	1 bag (25 kg) + 1 can of ARDEX E 90 (4,5 kg) + 9 litres of water	C2 T(T) E(E) S2	10 m ²	8 hours	1 day	Installation with a single layer of adhesive (6 mm trowel)	
 <p>For situations in which a quick setting adhesive is recommended</p>	MAPEI	50x50; 100x40; 100x50	GRANIRAPID	COMPULSORY for gypsum-based, anhydride or absorbent surfaces: Primer G or ECOPRIM T	Component A: 1 bag (25 kg) Component B: tub (5,5 kg)	C2 F S1	6 m ²	3 hours	1 day	Installation with a double layer of adhesive
			ULTRALITE S1 QUICK		1 bag (15 kg) + 5,1/5,7 litres of water	C2 F TE S1				
		100x100; 300x100	ULTRALITE S2 QUICK		Component A: 1 bag (25 kg) Component B: tub (6,5 kg)	C2 F TE S2	6 m ²			
			ELASTORAPID							
	KERAKOLL	All sizes	H40 ECO RAPIDFLEX	For gypsum-based surfaces: Primer A Eco	1 bag (25 kg) + 6,3 litres of water	C2 F TE S1	6 m ²	3 hours	2 days	
	LATICRETE	All sizes	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m ²	6 hours	2 days	
	LITOKOL	50x50; 100x40; 100x50	LITOSTONE K99 + LATEXKOL + water	For gypsum-based surfaces: Primer C	1 bag (25 kg) + 3,5 litres of LATEXKOL + 3,5 litres of water	C2 FE S1	5 m ²	4 hours	1 day	
			LITOSTONE K99 + LATEXKOL		1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 FE S2				
	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	For gypsum-based surfaces: PCI GISOGRUND	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2 TE S2	5,5 m ²	8 hours	1 day	
	SAINT-GOBAIN / WEBER	All sizes	WEBER.COL PRO MARMO + WEBER L50	For old ceramic tile, marble slabs and stone: WEBER. FLOOR 4716 Prime	1 bag (25 kg) + 7 litres of WEBER L50	C2 FT S1	5 m ²	4 hours	3 days	
WEBER.COL PRO RAPID + WEBER L50			1 bag (25 kg) + 6-6,5 litres of WEBER L50							
ARDEX	All sizes	ARDEX X 77 S microtec + ARDEX E 90	For gypsum-based surfaces: ARDEX P 51	1 bag (25 kg) + 3 kg of ARDEX E 90 + 7,5 litres of water	C2 FT(T) E S2	10 m ²	90 min.	6 hours	Installation with a single layer of adhesive (6 mm trowel)	

(*) Instructions provided directly by manufacturers, who guarantee the information given.

For explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

(**) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary.

For explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

(***) Ratings provided directly by manufacturers, who guarantee the information given, are based on laboratory tests performed at 23° C and with a relative humidity of 50%.

In the event of use in different situations or for explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

A.2b - Wall installation in interiors of SLIMTECH 3plus and SLIMTECH 5plus



Supporting material: concrete, old ceramic tile, marble, stone

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)
 <p>For situations in which a normal setting adhesives is recommended</p>	MAPEI	50x50; 100x40; 100x50	KERAFLEX MAXI S1	If levelling is necessary, on the above mentioned supports, apply the following product beforehand ECOPRIM GRIP	1 bag (25 kg) + 7,2/7,7 litres of water	C2 TE S1	7 m ²	8 hours	14 days	Installation with a double layer of adhesive
			ULTRALITE S1		1 bag (15 kg) + 8,4/8,7 litres of water	C2 TE S1				
		100x100; 300x100	ULTRALITE S2		1 bag (15 kg) + 5,9/6,2 litres of water	C2 E S2	6,3 m ²			
			KERABOND + ISOLASTIC		1 bag (25 kg) + 8,5 kg of ISOLASTIC	C2 E S2				
	KERAKOLL	All sizes	H40 NO LIMITS	Not necessary, according to manufacturer	Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water White 1 bag (25 kg) from 7,2 to 9,5 litres of water	C2 TE S1	6 m ²	20 hours	3 days	
	LATICRETE	All sizes	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m ²	1 day	7 days	
	LITOKOL	50x50; 100x40; 100x50	SUPERFLEX K77	Not necessary, according to manufacturer	1 bag (25 kg) + 8,5 litres of water	C2 TE S1	6 m ²	8 hours	7 days	
			100x100; 300x100		CEMENTKOL K21 + LATEXKOL	1 bag (25 kg) + 7,5 kg of LATEXKOL				
PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	On non-absorbent supports PCI GISOGRUN 303	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2 TE S2	5,5 m ²	8 hours	1 day		
SAINT-GOBAIN / WEBER	All sizes	WEBER.COL PRO HP + WEBER L50	For old ceramic tile, marble slabs and stone: WEBER. FLOOR 4716 Prime	1 bag (15 kg) + 7 litres of WEBER L50	C2 TE S2	5 m ²	8 hours	14 days		
ARDEX	All sizes	ARDEX X 77 microtec + ARDEX E 90	As an alternative for old ceramic tile, marble slabs and stone:- ARDEX P 4 - ARDEX X 77 (rough levelled)	1 bag (25 kg) + 1 can of ARDEX E 90 (4,5 kg) + 9 litres of water	C2 T(E) S2	10 m ²	8 hours	1 day	Installation with a single layer of adhesive (6 mm trowel)	
 <p>For situations in which a quick setting adhesive is recommended</p>	MAPEI	50x50; 100x40; 100x50	GRANIRAPID	If levelling is necessary, on the above mentioned supports, apply ECOPRIM GRIP beforehand	Component A: 1 bag (25 kg) Component B: tub (5,5 kg)	C2 F S1	6 m ²	3 hours	1 day	Installation with a double layer of adhesive
			ULTRALITE S1 QUICK		1 bag (15 kg) + 5,1/5,7 litres of water	C2 FTE S1				
		100x100; 300x100	ULTRALITE S2 QUICK		Component A: 1 bag (25 kg) Component B: tub (6,5 kg)	C2 FTE S2	6 m ²			
			ELASTORAPID							
	KERAKOLL	All sizes	H40 ECO RAPIDFLEX	Not necessary, according to manufacturer	1 bag (25 kg) + 6,3 litres of water	C2 FTE S1	6 m ²	3 hours	2 days	
	LATICRETE	All sizes	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m ²	6 hours	2 days	
	LITOKOL	50x50; 100x40; 100x50	LITOSTONE K99 + LATEXKOL + water	For gypsum-based surfaces: Primer C	1 bag (25 kg) + 3,5 litres of LATEXKOL + 3,5 litres of water	C2 FE S1	5 m ²	4 hours	1 day	
			100x100; 300x100		LITOSTONE K99 + LATEXKOL	1 bag (25 kg) + 7,5 kg of LATEXKOL				
	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	On non-absorbent supports PCI GISOGRUN 303	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2 TE S2	5,5 m ²	8 hours	1 day	
	SAINT-GOBAIN / WEBER	50x50; 100x40; 100x50; 100x100	WEBER.COL PRO MARMO + WEBER L50	For old ceramic tile, marble slabs and stone: WEBER. FLOOR 4716 Prime	1 bag (25 kg) + 7 litres of WEBER L50	C2 FT S1	5 m ²	4 hours	3 days	
WEBER.COL PRO RAPID + WEBER L50			1 bag (25 kg) + 6-6,5 litres of WEBER L50							
ARDEX	All sizes	ARDEX X 77 S microtec + ARDEX E 90	As an alternative for old ceramic tile, marble slabs and stone:- ARDEX P 4 - ARDEX X 77 (rough levelled)	1 bag (25 kg) + 3 kg of ARDEX E 90 + 7,5 litres of water	C2 FT(T) ES2	10 m ²	90 min.	6 hours	Installation with a single layer of adhesive (6 mm trowel)	

(*) Instructions provided directly by manufacturers, who guarantee the information given. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

(**) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

(***) Ratings provided directly by manufacturers, that guarantee the information given, based on laboratory tests performed at 23° C and with a relative humidity of 50%. For use in different situations, contact the technical support office of the respective manufacturers. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

A.2c - Wall installation in interiors of SLIMTECH 3plus and SLIMTECH 5plus



Supporting material: particle board, metal

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)
 <p>For situations in which a normal setting adhesives is recommended</p>	MAPEI	All sizes	KERALASTIC	Not necessary, according to manufacturer	1 can (10 kg)	R2	3 m ²	12 hours	7 days	Installation with a single-layer of adhesive (6 mm trowel)
			KERALASTIC T			R2T				
	KERAKOLL	All sizes	SUPERFLEX ECO	Not necessary, according to manufacturer	1 bucket (8 kg)	R2T	3 m ²	12 hours	3 days	Installation with a double layer of adhesive
	KERAKOLL	All sizes	H40 NO LIMITS	KERAGRIP ECO	Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water White 1 bag (25 kg) from 7,2 to 9,5 litres of water	C2 TE S1	6 m ²	20 hours	3 days	
	LATICRETE	All sizes	LATALASTIK	Not necessary, according to manufacturer	1 bucket of component A (5 kg) 1 bucket of component B (2 kg)	R2T	3 m ²	1 day	7 days	
	LITOKOL	All sizes	LITOELASTIC	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	5 days	
	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	Use of the following product is COMPULSORY: PCI GISOGRUN 303	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2 TE S2	5,5 m ²	8 hours	1 day	
	SAINT-GOBAIN / WEBER	All sizes	WEBER.COL.FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	2 days	Installation with a single-layer of adhesive (6 mm trowel)
ARDEX	All sizes	ARDEX X 77 microtec + ARDEX E 90	ARDEX P 82	1 bag (25 kg) + 1 can of ARDEX E 90 (4,5 kg) + 9 litres of water	C2 T(T) E(E) S2	10 m ²	8 hours	1 day		
 <p>For situations in which a quick setting adhesive is recommended</p>	MAPEI	All sizes	KERAQUICK + LATEX PLUS	Not necessary, according to manufacturer	1 bag (25 kg) + 8,5 kg of LATEX PLUS	C2 FT S2	7 m ²	3 hours	1 day	Installation with a single-layer of adhesive (6 mm trowel)
	KERAKOLL	All sizes	H40 ECO RAPIDFLEX	KERAGRIP ECO	1 bag (25 kg) + 6,3 litres of water	C2F TE S1	6 m ²	3 hours	2 days	Installation with a double layer of adhesive
	LATICRETE	All sizes	LATALASTIK	Not necessary, according to manufacturer	1 bucket of component A (5 kg) 1 bucket of component B (2 kg)	R2T	3 m ²	1 day	7 days	
	LITOKOL	All sizes	LITOELASTIC	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	5 days	
	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	Use of the following product is COMPULSORY: PCI GISOGRUN 303	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2 TE S2	5,5 m ²	8 hours	1 day	Installation with a single-layer of adhesive (6 mm trowel)
	SAINT-GOBAIN / WEBER	All sizes	WEBER.COL.FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	2 days	
	ARDEX	All sizes	ARDEX X 77 S microtec + ARDEX E 90	ARDEX P 82	1 bag (25 kg) + 3 kg of ARDEX E 90 + 7,5 litres of water*	C2 F(F)T ES2	10 m ²	90 min.	6 hours	

(*) Instructions provided directly by manufacturers, who guarantee the information given. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

(**) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

(***) Ratings provided directly by manufacturers, that guarantee the information given, based on laboratory tests performed at 23° C and with a relative humidity of 50%. For use in different situations, contact the technical support office of the respective manufacturers. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

A.3a - Wall installation in exteriors of SLIMTECH 3mm



Supporting material: plaster

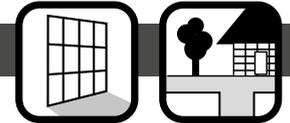
At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)	
 <p>For situations in which a normal setting adhesives is recommended</p>	MAPEI	50x50; 100x40; 100x50	KERAFLEX MAXI S1	Not necessary, according to manufacturer	1 bag (25 kg) + 7,2/7,7 litres of water	C2 TE S1	7 m ²	8 hours	14 days	Installation with a double layer of adhesive	
			ULTRALITE S1		1 bag (15 kg) + 8,4/8,7 litres of water	C2 TE S1					
		100x100	ULTRALITE S2		1 bag (15 kg) + 5,9/6,2 litres of water	C2 E S2	6,3 m ²				
			KERABOND + ISOLASTIC		1 bag (25 kg) + 8,5 kg of ISOLASTIC	C2 E S2	6,5 m ²				
	KERAKOLL	50x50; 100x40; 100x50	H40 NO LIMITS	Not necessary, according to manufacturer	Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water	C2 TE S1	6 m ²	20 hours	3 days		
					White 1 bag (25 kg) from 7,2 to 9,5 litres of water						
	100x100				1 bag (25 kg) water and TOP LATEX ECO as indicated by manufacturer	C2 TE S2					
		LATICRETE	50x50; 100x40; 100x50; 100x100	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m ²	1 day		7 days
	LITOKOL	50x50; 100x40; 100x50	100x100	Not necessary, according to manufacturer	SUPERFLEX K77	1 bag (25 kg) + 8,5 litres of water	C2 TE S1	6 m ²	8 hours		7 days
					CEMENTKOL K21 + LATEXKOL	1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 S2	5 m ²			
PCI - BASF	50x50; 100x40; 100x50; 100x100	100x100	PCI NANOLIGHT	Not necessary, according to manufacturer	1 bag (15 kg) + 9 litres of water	C2 TE S1	5,5 m ²	8 hours	1 day		
SAINT-GOBAIN / WEBER	50x50; 100x40; 100x50; 100x100	100x100	WEBER.COL PRO HP	Not necessary, according to manufacturer	1 bag (25 kg) + 7 litres of water	C2 TE S1	5 m ²	8 hours	14 days		
ARDEX	50x50; 100x40; 100x50; 100x100	100x100	ARDEX X 77 microtec	Not necessary, according to manufacturer	1 bag (25 kg) + 11 litres of water	C2(T) E(E) S1	10 m ²	8 hours	1 day		
 <p>For situations in which a quick setting adhesive is recommended</p>	MAPEI	50x50; 100x40; 100x50	ELASTORAPID	Not necessary, according to manufacturer	Component A: 1 bag (25 kg) Component B: tub (6,5 kg)	C2 FTE S2	6 m ²	3 hours	1 day	Installation with a double layer of adhesive	
			ULTRALITE S1 QUICK		1 bag (15 kg) + 5,1/5,7 litres of water	C2 FTE S1					
		100x100	ULTRALITE S2 QUICK		1 bag (25 kg) + 8,5 kg of LATEX PLUS	C2 FE S2	7 m ²				
			KERAQUICK + LATEX PLUS		1 bag (25 kg) + 8,5 kg of LATEX PLUS	C2 FT S2	5 m ²				
	KERAKOLL	50x50; 100x40; 100x50;	100x100	H40 ECO RAPIDFLEX	Not necessary, according to manufacturer	1 bag (25 kg) + 6,3 litres of water	C2 FE S1	6 m ²	3 hours		2 days
						1 bag (25 kg) water and TOP LATEX ECO as indicated by manufacturer	C2 FE S2				
	LATICRETE	50x50; 100x40; 100x50; 100x100	100x100	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m ²	6 hours		2 days
	LITOKOL	50x50; 100x40; 100x50	100x100	Not necessary, according to manufacturer	LITOSTONE K99 + LATEXKOL + water	1 bag (25 kg) + 3,5 litres of LATEXKOL + 3,5 litres of water	C2 FE S1	5 m ²	4 hours		1 day
					LITOSTONE K99 + LATEXKOL	1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 FE S2				
	PCI - BASF	50x50; 100x40; 100x50; 100x100	100x100	PCI NANOLIGHT	Not necessary, according to manufacturer	1 bag (15 kg) + 9 litres of water	C2 TE S1	5,5 m ²	8 hours		1 day
SAINT-GOBAIN / WEBER	50x50; 100x40; 100x50; 100x100	100x100	Not necessary, according to manufacturer	WEBER.COL PRO MARMO + WEBER L50	1 bag (25 kg) + 7 litres of WEBER L50	C2 FT S1	5 m ²	4 hours	3 days		
				WEBER.COL PRO RAPID + WEBER L50	1 bag (25 kg) + 6-6,5 litres of WEBER L50						
ARDEX	50x50; 100x40; 100x50; 100x100	100x100	ARDEX X 77 S microtec	Not necessary, according to manufacturer	1 bag (25 kg) + 8,5 litres of water	C2 FT(T) E S1	10 m ²	90 min.	6 hours		

(*) Instructions provided directly by manufacturers, who guarantee the information given. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

(**) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

(***) Ratings provided directly by manufacturers, that guarantee the information given, based on laboratory tests performed at 23° C and with a relative humidity of 50%. For use in different situations, contact the technical support office of the respective manufacturers. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

A.3b - Wall installation in exteriors of SLIMTECH 3mm



Supporting material: concrete

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (**)	Mixing ratio (**)	Class (**)	Nominal coverage (**)	Workability (***)	Ready for use (***)	Installation (*)
 <p>For situations in which a normal setting adhesives is recommended</p>	MAPEI	50x50; 100x40; 100x50	KERAFLEX MAXI S1	Not necessary, according to manufacturer	1 bag (25 kg) + 7,2/7,7 litres of water	C2 TE S1	7 m ²	8 hours	14 days	Installation with a double layer of adhesive
			ULTRALITE S1		1 bag (15 kg) + 8,4/8,7 litres of water	C2 TE S1				
		100x100	ULTRALITE S2		1 bag (15 kg) + 5,9/6,2 litres of water	C2 E S2	6,3 m ²			
			KERABOND + ISOLASTIC		1 bag (25 kg) + 8,5 kg of ISOLASTIC	C2 E S2	6,5 m ²			
	KERAKOLL	50x50; 100x40; 100x50	H40 NO LIMITS	Not necessary, according to manufacturer	Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water	C2 TE S1	6 m ²	20 hours	3 days	
					White 1 bag (25 kg) from 7,2 to 9,5 litres of water	C2 TE S2				
	LITOKOL	50x50; 100x40; 100x50	SUPERFLEX K77	Not necessary, according to manufacturer	1 bag (25 kg) + 8,5 litres of water	C2 TE S1	6 m ²	8 hours	7 days	
			CEMENTKOL K21 + LATEXKOL		1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 S2				
	PCI - BASF	50x50; 100x40; 100x50; 100x100	PCI NANOLIGHT	Not necessary, according to manufacturer	1 bag (15 kg) + 9 litres of water	C2 TE S1	5,5 m ²	8 hours	1 day	
	SAINT-GOBAIN / WEBER	50x50; 100x40; 100x50; 100x100	WEBER.COL PRO HP + WEBER L50	Not necessary, according to manufacturer	1 bag (15 kg) + 7 litres of WEBER L50	C2 TE S2	5 m ²	8 hours	14 days	
ARDEX	50x50; 100x40; 100x50; 100x100	ARDEX X 77 microtec	Not necessary, according to manufacturer	1 bag (25 kg) + 11 litres of water	C2(T) E(E) S1	10 m ²	8 hours	1 day		
 <p>For situations in which a quick setting adhesive is recommended</p>	MAPEI	50x50; 100x40; 100x50	ELASTORAPID	Not necessary, according to manufacturer	Component A: 1 bag (25 kg) Component B: tub (6,5 kg)	C2 FTE S2	6 m ²	3 hours	1 day	Installation with a double layer of adhesive
			ULTRALITE S1 QUICK		1 bag (15 kg) + 5,1/5,7 litres of water	C2 FTE S1				
		100x100	ULTRALITE S2 QUICK		1 bag (15 kg) + 5,1/5,7 litres of water	C2 FE S2	7 m ²			
			KERAQUICK + LATEX PLUS		1 bag (25 kg) + 8,5 kg of LATEX PLUS	C2 FT S2	5 m ²			
	KERAKOLL	50x50; 100x40; 100x50;	H40 ECO RAPIDFLEX	Not necessary, according to manufacturer	1 bag (25 kg) + 6,3 litres of water	C2FTE S1	6 m ²	3 hours	2 days	
					1 bag (25 kg) water and TOP LATEX ECO as indicated by manufacturer	C2FTE S2				
	LATICRETE	50x50; 100x40; 100x50; 100x100	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m ²	6 hours	2 days	
	LITOKOL	50x50; 100x40; 100x50	LITOSTONE K99 + LATEXKOL + water	Not necessary, according to manufacturer	1 bag (25 kg) + 3,5 litres of LATEXKOL + 3,5 litres of water	C2 FE S1	5 m ²	4 hours	1 day	
			100x100		LITOSTONE K99 + LATEXKOL	1 bag (25 kg) + 7,5 kg of LATEXKOL				
	PCI - BASF	50x50; 100x40; 100x50; 100x100	PCI NANOLIGHT	Not necessary, according to manufacturer	1 bag (15 kg) + 9 litres of water	C2 TE S1	5,5 m ²	8 hours	1 day	
SAINT-GOBAIN / WEBER	50x50; 100x40; 100x50; 100x100	WEBER.COL PRO MARMO + WEBER L50	Not necessary, according to manufacturer	1 bag (25 kg) + 7 litres of WEBER L50	C2 FT S1	5 m ²	4 hours	3 days		
		WEBER.COL PRO RAPID + WEBER L50		1 bag (25 kg) + 6-6,5 litres of WEBER L50						
ARDEX	50x50; 100x40; 100x50; 100x100	ARDEX X 77 S microtec	Not necessary, according to manufacturer	1 bag (25 kg) + 8,5 litres of water	C2 FT(T) ES1	10 m ²	90 min.	6 hours		

(*) Instructions provided directly by manufacturers, who guarantee the information given. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

(**) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

(***) Ratings provided directly by manufacturers, that guarantee the information given, based on laboratory tests performed at 23° C and with a relative humidity of 50%. For use in different situations, contact the technical support office of the respective manufacturers. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

A.4a - Wall installation in exteriors of SLIMTECH 3plus and SLIMTECH 5plus



Supporting material: plaster

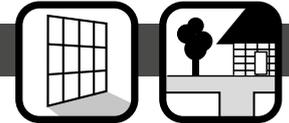
At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (**)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)
 <p>For situations in which a normal setting adhesives is recommended</p>	MAPEI	50x50; 100x40; 100x50	KERABOND + ISOLASTIC	Not necessary, according to manufacturer	1 bag (25 kg) + 8,5 kg of ISOLASTIC	C2 ES2	5 m ²	8 hours	14 days	Installation with a double layer of adhesive
			ULTRALITE S2		1 bag (15 kg) + 5,9/6,2 litres of water	C2 ES2	3 m ²			
		100x100; 300x100	KERALASTIC T		1 can (10 kg)	R2T	2,5 m ²	12 hours	7 days	
	KERAKOLL	50x50; 100x40; 100x50	H40 NO LIMITS	Not necessary, according to manufacturer	Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water	C2 TE S1	6 m ²	20 hours	3 days	
					White 1 bag (25 kg) from 7,2 to 9,5 litres of water					
		100x100			1 bag (25 kg) water and TOP LATEX ECO as indicated by manufacturer	C2 TES2				
	LATICRETE	All sizes	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m ²	1 day	7 days	
LITOKOL	All sizes	CEMENTKOL K21 + LATEXKOL	Not necessary, according to manufacturer	1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 S2	5 m ²	8 hours	7 days		
PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	Not necessary, according to manufacturer	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2 TE S2	5,5 m ²	8 hours	1 day		
SAINT-GOBAIN / WEBER	All sizes	WEBER.COL PRO HP + WEBER L50	Not necessary, according to manufacturer	1 bag (15 kg) + 7 litres of WEBER L50	C2 TE S2	5 m ²	8 hours	14 days		
ARDEX	All sizes	ARDEX X 77 microtec + ARDEX E 90	Not necessary, according to manufacturer	1 bag (25 kg) + 1 can of ARDEX E 90 (4,5 kg) + 9 litres of water	C2 T(T) E(E) S2	10 m ²	8 hours	1 day		
 <p>For situations in which a quick setting adhesive is recommended</p>	MAPEI	50x50; 100x40; 100x50	ULTRALITE S2 QUICK	Not necessary, according to manufacturer	1 bag (15 kg) + 6 litres of water	C2 FE S2	4 m ²	3 hours	2 days	Installation with a double layer of adhesive
			100x100; 300x100		KERAQUICK + LATEX PLUS	1 bag (25 kg) + 8,5 kg of LATEX PLUS	C2 FT S2		5 m ²	
	KERAKOLL	50x50; 100x40; 100x50;	H40 ECO RAPIDFLEX	Not necessary, according to manufacturer	1 bag (25 kg) + 6,3 litres of water	C2 FE S1	6 m ²	3 hours	2 days	
					1 bag (25 kg) water and TOP LATEX ECO as indicated by manufacturer	C2 FE S2				
		100x100								
	LATICRETE	All sizes	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m ²	6 hours	2 days	
	LITOKOL	All sizes	LITOSTONE K99 + LATEXKOL	Not necessary, according to manufacturer	1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 FE S2	5 m ²	4 hours	1 day	
PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	Not necessary, according to manufacturer	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2 TE S2	5,5 m ²	8 hours	1 day		
SAINT-GOBAIN / WEBER	50x50; 100x40; 100x50; 100x100	WEBER.COL PRO MARMO + WEBER L50	Not necessary, according to manufacturer	1 bag (25 kg) + 7 litres of WEBER L50	C2 FT S1	5 m ²	4 hours	3 days		
		WEBER.COL PRO RAPID + WEBER L50		1 bag (25 kg) + 6-6,5 litres of WEBER L50						
ARDEX	All sizes	ARDEX X 77 S microtec + ARDEX E 90	Not necessary, according to manufacturer	1 bag (25 kg) + 3 kg of ARDEX E 90 + 7,5 litres of water	C2 FT(T) ES2	10 m ²	90 min.	6 hours		

(*) Instructions provided directly by manufacturers, who guarantee the information given. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

(**) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

(***) Ratings provided directly by manufacturers, that guarantee the information given, based on laboratory tests performed at 23° C and with a relative humidity of 50%. For use in different situations, contact the technical support office of the respective manufacturers. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

A.4b - Wall installation in exteriors of SLIMTECH 3plus and SLIMTECH 5plus



Supporting material: concrete

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)
 <p>For situations in which a normal setting adhesives is recommended</p>	MAPEI	50x50; 100x40; 100x50	KERABOND + ISOLASTIC	Not necessary, according to manufacturer	1 bag (25 kg) + 8,5 kg of ISOLASTIC	C2 ES2	5 m ²	8 hours	14 days	Installation with a double layer of adhesive
			ULTRALITE S2		1 bag (15 kg) + 5,9/6,2 litres of water	C2 ES2	3 m ²			
		100x100; 300x100	KERALASTIC T		1 can (10 kg)	R2T	2,5 m ²	12 hours	7 days	
	KERAKOLL	50x50; 100x40; 100x50	H40 NO LIMITS	Not necessary, according to manufacturer	Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water	C2 TE S1	6 m ²	20 hours	3 days	
					White 1 bag (25 kg) from 7,2 to 9,5 litres of water					
		100x100			1 bag (25 kg) water and TOP LATEX ECO as indicated by manufacturer	C2 TES2				
	LATICRETE	All sizes	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m ²	1 day	7 days	
	LITOKOL	All sizes	CEMENTKOL K21 + LATEXKOL	Not necessary, according to manufacturer	1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 S2	5 m ²	8 hours	7 days	
PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	Not necessary, according to manufacturer	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 6 litres of water	C2 TE S2	5,5 m ²	8 hours	1 day		
SAINT-GOBAIN / WEBER	All sizes	WEBER.COL PRO HP + WEBER LS0	Not necessary, according to manufacturer	1 bag (15 kg) + 7 litres of WEBER LS0	C2 TE S2	5 m ²	8 hours	14 days		
ARDEX	All sizes	ARDEX X 77 microtec + ARDEX E 90	Not necessary, according to manufacturer	1 bag (25 kg) + 1 can of ARDEX E 90 (4,5 kg) + 9 litres of water	C2 T(T) E(E) S2	10 m ²	8 hours	1 day		
 <p>For situations in which a quick setting adhesive is recommended</p>	MAPEI	50x50; 100x40; 100x50	ULTRALITE S2 QUICK	Not necessary, according to manufacturer	1 bag (15 kg) + 6 litres of water	C2 FE S2	4 m ²	3 hours	2 days	Installation with a double layer of adhesive
		100x100; 300x100	KERAQUICK + LATEX PLUS		1 bag (25 kg) + 8,5 kg of LATEX PLUS	C2 FT S2	5 m ²		1 day	
	KERAKOLL	50x50; 100x40; 100x50;	H40 ECO RAPIDFLEX	Not necessary, according to manufacturer	1 bag (25 kg) + 6,3 litres of water	C2 FE S1	6 m ²	3 hours	2 days	
		100x100			1 bag (25 kg) water and TOP LATEX ECO as indicated by manufacturer	C2 FE S2				
	LATICRETE	All sizes	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m ²	6 hours	2 days	
	LITOKOL	All sizes	LITOSTONE K99 + LATEXKOL	Not necessary, according to manufacturer	1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 FE S2	5 m ²	4 hours	1 day	
	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	Not necessary, according to manufacturer	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 6 litres of water	C2 TE S2	5,5 m ²	8 hours	1 day	
	SAINT-GOBAIN / WEBER	All sizes	WEBER.COL.FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	2 days	
ARDEX	All sizes	ARDEX X 77 S microtec + ARDEX E 90	Not necessary, according to manufacturer	1 bag (25 kg) + 3 kg of ARDEX E 90 + 7,5 litres of water	C2 FT(T) E S2	10 m ²	90 min.	6 hours	Installation with a double layer of adhesive	

(*) Instructions provided directly by manufacturers, who guarantee the information given. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

(**) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

(***) Ratings provided directly by manufacturers, that guarantee the information given, based on laboratory tests performed at 23° C and with a relative humidity of 50%. For use in different situations, contact the technical support office of the respective manufacturers. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").



Supporting material: cement-based screeds, calcium sulphate-based or heated screeds, self-levelling products, concrete, old ceramic tile, marble slabs, stone

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Setting for foot traffic and workability (***)	Ready for use (***)	Installation (*)
 <p>For situations in which a normal setting adhesives is recommended</p>	MAPEI	50x50;100x40; 100x50	KERAFLEX MAXI S1	COMPULSORY for gypsum-based, anhydrite or absorbent surfaces: Primer G or ECOPRIM T For non-absorbent supports: ECOPRIM GRIP	1 bag (25 kg) + 7,2/7,7 litres of water	C2 TE S1	3,5 m ²	1 day	14 days	Installation with a double layer of adhesive
			ULTRALITE S1		1 bag (15 kg) + 8,4/8,7 litres of water	C2 TE S1		8 hours		
		100x100; 300x100	ULTRALITE S2		1 bag (15 kg) + 5,9/6,2 litres of water	C2 E S2	5 m ²	1 day		
			KERABOND + ISOLASTIC		1 bag (25 kg) + 8,5 kg of ISOLASTIC	C2 E S2				
		For heated screeds: All sizes	KERABOND + ISOLASTIC		1 bag (25 kg) + 8,5 kg of ISOLASTIC	C2 E S2	3,5 m ²			
			ULTRALITE S2		1 bag (15 kg) + 5,9/6,2 litres of water	C2 E S2				
	KERAKOLL	All sizes	H40 NO LIMITS	For gypsum-based surfaces: Primer A Eco	Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water White 1 bag (25 kg) from 7,2 to 9,5 litres of water	C2 TE S1	6 m ²	1 day	3 days	
	LATICRETE	All sizes	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m ²	1 day	7 days	
	LITOKOL	50x50;100x40; 100x50	SUPERFLEX K77	For anhydrite screeds: Primer C	1 bag (25 kg) + 8,5 litres of water	C2 TE S1	5 m ²	8 hours	7 days	
			100x100; 300x100		CEMENTKOL K21 + LATEXKOL	1 bag (25 kg) + 7,5 kg of LATEXKOL				
For heated screeds: All sizes		1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 S2							
PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	If support is anhydrite-based: PCI GISOGRUND On old, non-absorbent floors: PCI GISOGRUND 303	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2 TE S2	5,5 m ²	8 hours	1 day		
SAINT-GOBAIN / WEBER	All sizes	WEBER.COL PRO HP + WEBER L50	For anhydrite- or calcium sulphate-based surfaces: WEBER.PRIM PF15	1 bag (15 kg) + 7 litres of WEBER L50	C2 TE S2	5 m ²	8 hours	14 days		
	For interiors only: 50x50;100x40; 100x50; 100x100	WEBER.COL PRO HF LIGHT		1 bag (15 kg) + 8 litres of water	C2 TE S2		1 day			
ARDEX	All sizes	ARDEX X 78 microtec + ARDEX E 90	For gypsum- and anhydrite-based, absorbent or polished surfaces: ARDEX P 51	1 bag (25 kg) + 1 can of ARDEX E 90 (4,5 kg) + 9 litres of water	C2 (E) S2	6 m ²	8 hours	1 day	Installation with a single layer of adhesive (trowel with 10 mm tilted teeth or ARDEX Microtec trowel)	
 <p>For situations in which a quick setting adhesive is recommended</p>	MAPEI	50x50;100x40; 100x50	GRANIRAPID	COMPULSORY for gypsum-based, anhydrite or absorbent surfaces: Primer G or ECOPRIM T For non-absorbent supports: ECOPRIM GRIP	Component A: 1 bag (25 kg) Component B: tub (5,5 kg)	C2 F S1	4 m ²	3 hours	1 day	Installation with a double layer of adhesive
			ULTRALITE S1 QUICK		1 bag (15 kg) + 5,1/5,7 litres of water	C2 FTE S1	3,5 m ²			
		100x100; 300x100	ULTRALITE S2 QUICK		1 bag (15 kg) + 5,1/5,7 litres of water	C2 FE S2	4 m ²			
			ELASTORAPID		Component A: 1 bag (25 kg) Component B: tub (6,5 kg)	C2 FTE S2				
		For heated screeds: 50x50;100x40; 100x50	ELASTORAPID		Component A: 1 bag (25 kg) Component B: tub (6,5 kg)	C2 FTE S2	5 m ²			
		For heated screeds: 100x100; 300x100	KERAQUICK + LATEX PLUS		1 bag (25 kg) + 8,5 kg of LATEX PLUS	C2 FT S2				
	KERAKOLL	All sizes	H40 ECO RAPIDFLEX	For gypsum-based or anhydrite surfaces: Primer A Eco	1 bag (25 kg) + 6,3 litres of water	C2FTE S1	6 m ²	3 hours	2 days	
	LATICRETE	All sizes	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m ²	6 hours	2 days	
	LITOKOL	50x50; 100x40; 100x50	LITOSTONE K99 + LATEXKOL + water	For gypsum-based surfaces: Primer C	1 bag (25 kg) + 3,5 litres of LATEXKOL + 3,5 litres of water	C2 FE S1	5 m ²	4 hours	1 day	
					1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 FE S2				
For heated screeds: all sizes		LITOSTONE K99 + LATEXKOL	1 bag (25 kg) + 7,5 kg of LATEXKOL		C2 FE S2					
PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	If support is anhydrite-based: PCI GISOGRUND On old, non-absorbent floors: PCI GISOGRUND 303	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2 TE S2	5,5 m ²	8 hours	1 day		
SAINT-GOBAIN / WEBER	All sizes	WEBER.COL PRO MARMO + WEBER L50	For anhydrite- or calcium sulphate-based surfaces: WEBER.PRIM PF15	1 bag (25 kg) + 7 litres of WEBER L50	C2 FT S1	5 m ²	4 hours	3 days		
		WEBER.COL PRO RAPID + WEBER L50		1 bag (25 kg) + 6-6,5 litres of WEBER L50						
ARDEX	All sizes	ARDEX X 78 S microtec + ARDEX E 90	For gypsum- and anhydrite-based, absorbent or polished surfaces: ARDEX P 51	1 bag (25 kg) + 3 kg of ARDEX E 90 + 7 litres of water	C2 FE S2	6 m ²	90 min.	6 hours	Installation with a single layer of adhesive (trowel with 10 mm tilted teeth or ARDEX Microtec trowel)	

A.5b - Floor installation in interiors/exterior* of SLIMTECH 3plus and SLIMTECH 5plus



Supporting material: wood, PVC, rubber, linoleum, metal, resin

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Setting for foot traffic and workability (***)	Ready for use (***)	Installation (*)
 <p>For situations in which a normal setting adhesives is recommended</p>	MAPEI	All sizes	KERALASTIC	Not necessary, according to manufacturer	1 can (10 kg)	R2	2,5 m ²	12 hours	7 days	Installation with a double layer of adhesive
			KERALASTIC T			R2T				
	KERAKOLL	All sizes in interiors	H40 NO LIMITS	Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water	C2 TE S1	C2 TE S1	6 m ²	24 hours	3 days	
				White 1 bag (25 kg) from 7,2 to 9,5 litres of water						
		All sizes	SUPERFLEX ECO	Not necessary, according to manufacturer	1 bucket (8 kg)	R2T	3 m ²	1 day	3 days	
	LATICRETE	All sizes	LATALASTIK	Not necessary, according to manufacturer	1 bucket of component A (5 kg) 1 bucket of component B (2 kg)	R2T	3 m ²	1 day	5 days	
	LITOKOL	All sizes	LITOELASTIC	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	5 days	
PCI - BASF	All sizes	PCI COLLASTIC	Not necessary, according to manufacturer	3 kg bucket (A+B)	R2T	1,5 m ²	12 hours	1 day	Installation with a single layer of adhesive (trowel with 10 mm tilted teeth)	
SAINT-GOBAIN / WEBER	All sizes	WEBER.COL.FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	2 days		
ARDEX	All sizes	ARDEX X 78 microtec + ARDEX E 90	ARDEX P 82	1 bag (25 kg) + 1 can of ARDEX E 90 (4,5 kg) + 9 litres of water	C2 E(E) S2	6 m ²	8 hours	1 day	Installation with a single layer of adhesive (trowel with 10 mm tilted teeth or ARDEX Microtec trowel)	
 <p>For situations in which a quick setting adhesive is recommended</p>	MAPEI	All sizes	KERAQUICK + LATEX PLUS	Not necessary, according to manufacturer	1 bag (25 kg) + 8,5 kg of LATEX PLUS	C2 FT S2	2,5 m ²	3 hours	1 day	Installation with a double layer of adhesive
	KERAKOLL	All sizes	H40 ECO RAPIDFLEX	PRIMER A ECO or KERAGRIP ECO depending on support	1 bag (25 kg) + 6,3 litres of water	C2FTE S1	6 m ²	3 hours	2 days	
			SUPERFLEX ECO	Not necessary, according to manufacturer	1 bucket (8 kg)	R2T	3 m ²	1 day	3 days	
	LATICRETE	All sizes	LATALASTIK	Not necessary, according to manufacturer	1 bucket of component A (5 kg) 1 bucket of component B (2 kg)	R2T	3 m ²	1 day	5 days	
	LITOKOL	All sizes	LITOELASTIC	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	7 days	
	PCI - BASF	All sizes	PCI COLLASTIC	Not necessary, according to manufacturer	3 kg bucket (A+B)	R2T	1,5 m ²	3 hours	12 hours	Installation with a single layer of adhesive (trowel with 10 mm tilted teeth)
	SAINT-GOBAIN / WEBER	All sizes	WEBER.COL.FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	2 days	
ARDEX	All sizes	ARDEX X 78 S microtec + ARDEX E 90	ARDEX P 82	1 bag (25 kg) + 3 kg of ARDEX E 90 + 7 litres of water	C2 FE S2	6 m ²	90 min.	6 hours	Installation with a single layer of adhesive (trowel with 10 mm tilted teeth or ARDEX Microtec trowel)	

(*) Upon condition that surfaces are sheltered (e.g. loggias, covered balconies, etc.) and made totally impervious. The use of sizes that are not larger than 50x50 cm is recommended.

(**) Instructions provided directly by manufacturers, who guarantee the information given. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

(***) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

(****) Ratings provided directly by manufacturers, that guarantee the information given, based on laboratory tests performed at 23° C and with a relative humidity of 50%. For use in different situations, contact the technical support office of the respective manufacturers. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

IMPORTANT

The information and directions provided in this manual are to be considered valid until an update is published. The updated document replaces all previous publications. You can check for updates on the company web site or contact the company's technical support office. The company reserves the right to modify the contents and appearance of this manual, should this be deemed necessary.

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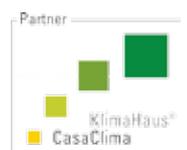


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