

## Materials table butech

KEA	SAP	Product description	Packaging	Coverage*	
				59.6 x 59.6 x 1.1 cm	120 x 120 x 0.85 cm
B89500011	100089879	lamitech n rollo 5 m	Roll 5 m <sup>2</sup>	1.05 m /m <sup>2</sup>	1.05 m /m <sup>2</sup>
B85900004	100072729	sylastic	24 kg bag	4 kg/m <sup>2</sup>	6 kgr/m <sup>2</sup>
B11906008	100033113	maxifluid gris	25 kg bag	5 kg/m <sup>2</sup>	6 kg/m <sup>2</sup>
B22501001	100004294	colorstuk rapid blanco n	5 kg bag	300 g/m <sup>2</sup>	300 g/m <sup>2</sup>
B22502013	100004305	colorstuk rapid gris n	5 kg bag	300 g/m <sup>2</sup>	300 g/m <sup>2</sup>
B22503002	100004295	colorstuk rapid manhattan n	5 kg bag	300 g/m <sup>2</sup>	300 g/m <sup>2</sup>
B22503004	100004297	colorstuk rapid cemento n	5 kg bag	300 g/m <sup>2</sup>	300 g/m <sup>2</sup>
B22503005	100004298	colorstuk rapid antracita n	5 kg bag	300 g/m <sup>2</sup>	300 g/m <sup>2</sup>
B22503006	100004299	colorstuk rapid negro n	5 kg bag	300 g/m <sup>2</sup>	300 g/m <sup>2</sup>
B22503007	100004300	colorstuk rapid caramelo n	5 kg bag	300 g/m <sup>2</sup>	300 g/m <sup>2</sup>
B22503009	100004302	colorstuk rapid marfil n	5 kg bag	300 g/m <sup>2</sup>	300 g/m <sup>2</sup>
B22502010	100004303	colorstuk rapid marrón n	5 kg bag	300 g/m <sup>2</sup>	300 g/m <sup>2</sup>
B22502011	100004304	colorstuk rapid tabaco n	5 kg bag	300 g/m <sup>2</sup>	300 g/m <sup>2</sup>
B21522220	100060549	colorstuk rapid moka n	5 kg bag	300 g/m <sup>2</sup>	300 g/m <sup>2</sup>
B22502016	100004308	colorstuk rapid beige n	5 kg bag	300 g/m <sup>2</sup>	300 g/m <sup>2</sup>
B82401001	100005818	p-404 blanco	310 ml cartridge	12.4 m/cartridge	12.4 m/cartridge
B82401002	100005819	p-404 gris	310 ml cartridge	12.4 m/cartridge	12.4 m/cartridge
B82401003	100005820	p-404 negro	310 ml cartridge	12.4 m/cartridge	12.4 m/cartridge

**\* Conditions:**

Laboratory obtained data. They may vary depending on the state of the base and the placement conditions.

Adhesive layer thickness 4.5 – 5.5 mm.

Tiling joint width 5 mm.

## Consumer information

### Technical guide



## Outdoor floors

### butech building system

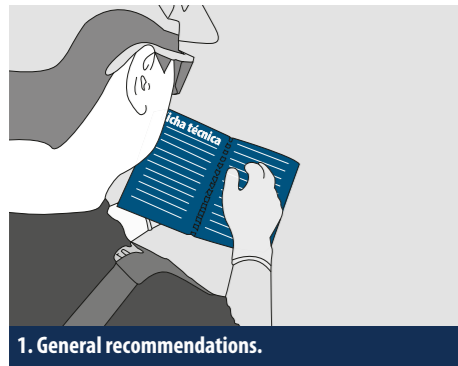
## butech

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1. General recommendations.

The construction of terraces requires qualified personnel. It is only recommended to use professionals with proven experience in this type of work.

Check the information in data sheets or packaging before using any product. Follow the manufacturer's recommendations. Using the appropriate tools for each type of work is essential.

Comply with occupational safety regulations.



2. Floor design.

Placement joints shall be of at least 5 mm. The use of **self-leveling spacers** that facilitate floor leveling is recommended.

Carry out the construction layout depending both on the floor design and the use demands. Determine type and color of placement joints, cuts, and movement joints.

Make the floor with the necessary slopes for a proper water drainage.



3. Preparing the substrate.

Check that the base or placement substrate is stable, non-deformable, and with no risk of movements associated to the cement mortar curing.

It is recommended to make a regularization layer. The placement surface must meet the suitable characteristics for placing ceramic: clean surface, dry, rough texture, non-crumbling, and flat. Include in the substrate some sort of waterproofing.

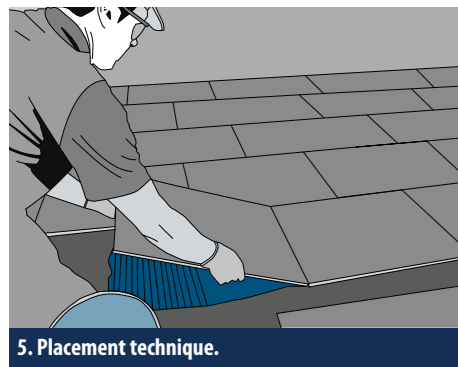
The use of anti-cracking sheets is recommended, **lamitech n** type, to avoid tile breakage or detachment.



4. Bonding material.

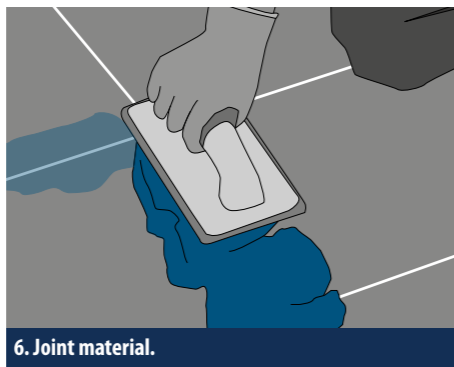
Use improved deformable cement-based adhesives C2 S2, **super-flex S2**. The use of cement-based adhesives with adequate performance and workability for exteriors, and applicable even on a medium-bed layer, is recommended.

Follow manufacturer recommendations in the preparation and use of adhesives. Do not apply adhesive with a final thickness greater than that indicated on the bag.



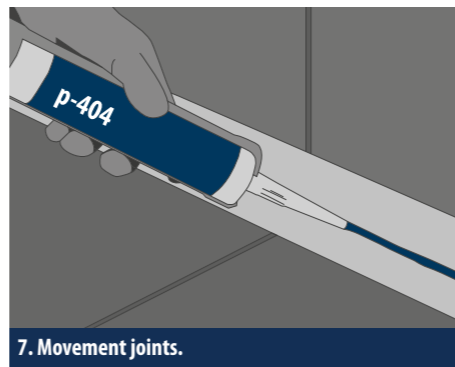
5. Placement technique.

Install the tiles using back butter method, spreading the adhesive over the entire laying surface with the notched trowel on one side and spreading the adhesive on the back of the tile with the smooth side of the trowel on the other side. Verify that there is full contact between the adhesive and the piece base. It is recommended to carry out double gluing of the tiles. Control the adhesive wettability, pressing the ceramic on the bonding material, and check that the latter makes correct contact with the tile back.



6. Joint material.

Use flexible, CG2 WA cement-based joint materials, **colorstuk rapid** type. The use of aluminous type, water resistant, and reduced elastic modulus joint mortars is recommended. Apply the joint material with a rubber trowel, avoiding the formation of bubbles, cracks, or gaps. Do not let the joint material harden on the ceramic; clean when it starts to dry. Do not soak the joint with excess water. When improved stain and water resistance is required, use epotech aqua and epotech nature grouting.



7. Movement joints.

Heed the structural joints present in floor slabs. Make the movement joints following the instructions of the construction technician. In general, do not design areas exceeding 16 m<sup>2</sup>. The use of deformable profiles is recommended, **pro-dilata** type, suitable for the intended traffic. Minimum joint width: 8 mm

There will be perimeter joints in corners, floor level changes, and height differences in material changes. Minimum joint width: 8 mm.



8. Cleaning and maintenance.

Protect the floor against premature loads, other construction works, and adverse weather conditions. Use cleaning products that are compatible with the tile's chemical resistance. As a general rule, acid detergents are recommended for cleaning cement stains. Efflorescences arise naturally from any mortar containing Portland cement, so it is recommended to avoid those types of mortars. Once the installation is finished, cover and protect the pavement with **butech protect** type polypropylene plates.

## Waterproofing.

Waterproof terraces in accordance with the standards in force in each case.

Recommends waterproofing the laying surface with **sylastic premium** type waterproof and flexible mortars, compatible with type C2 cement-based adhesives. This material is characterized by:

- cement-based waterproofer with excellent bonding and deformability features, specially recommended for waterproofing outdoors. Compatible with type C2 cement-based adhesive as per EN 12004. Indoor and outdoor use.

- It prevents the passage of water at both negative and positive pressures.

- Excellent adherence, which improves the grip of the floor.

- Great deformability that reduces the risk of breakage of the floor.

- It is completely watertight, which allows its use in swimming pools. Excellent ageing resistance.

In addition this system for waterproofing under ceramic floors has the following advantages:

- It eliminates the need for drainage and compression layers.

- It reduces the total thickness of the waterproofing system.

- Less than 5 mm thick.

- It prevents the formation of efflorescences on grouting materials and porous non-glazed tiles.

- It improves the screed's resistance to ice.

The application of this product is very quick and simple. Simply extend two layers of mortar, reinforce with fiberglass mesh, and protect the angles and level changes with elastic and waterproof bands.



Waterproofing prevents the formation of efflorescences on floors with non-glazed tiles.

## Recommended materials.

### Preparing the substrate.

#### lamitech n

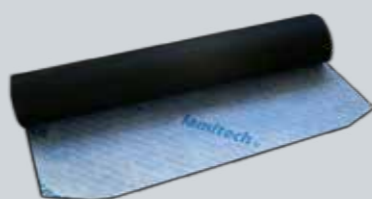
Anti-cracking multilayer sheet, specially designed for outdoor floor decoupling. It protects tiles against substrate tensions, reducing the risk of breakage and piece lifting.

#### Characteristics:

Multilayer HDPE/EVAC polymer membrane covered with polyester fibers. Maximum outdoors waterproofing with minimal thickness (3.4 mm). It allows for direct laying of ceramic tiles with cement-based adhesive.

#### Recommended use:

Decoupling of balconies and terraces. Waterproofing of outdoor floors. Laying of floor tiles on cracked substrates. Terrace refurbishing.



### Bonding material.

#### super-flex S2

super-flex S2 is a type C2 E S2 high-performance cement-based adhesive, as per EN 12004, for laying all kinds of ceramic tiles on the most used substrates in the building industry. Specially recommended for outdoor use.

#### Characteristics:

Cement-based, single component adhesive. Lightened adhesive. Low consumption onsite. Maximum adherence and deformability. High initial adherence. Extended working times. Open time higher than 30 min. Application thickness up to 10 mm. Frost-resistant. Mixing water: 6 l per 15 kg bag

Certifications/Standards:  
EN 12004 C2 E S2



### Joint material.

#### colorstuk rapid type

Line of type CG 2 WA technical mortars for sealing joints, suitable for all ceramic tile types. They are easy to apply, resistant, and have a color stable joint. Fine grained joint material, suitable for sealing joints from 1 to 15 mm.

#### Characteristics

Excellent adherence and deformability without the need for additives. Good resistance to abrasion. Waterproof and anti-fungal. Wide color range.

#### Certifications/Standards:

EN 13888 CG 2 WA



### Complements.

#### Profiles for floor tiles

There is a wide variety of profiles with deformable central band that absorb tensions both from the substrate and from the ceramic floor. We recommend the following types:

**pro-dilata CFL** 8 mm Wide PVC profile for movement joints. Pedestrian transit.  
**pro-dilata CFM** 10 mm Wide metal profile for movement joints. Wheeled traffic.

#### p-404

Elastic putty for movement joints that, when in contact with air humidity, polymerizes forming an elastomer of extraordinary elasticity and adhesion.

#### Characteristics:

Excellent chemical resistance. Low elasticity modulus.

#### Recommended use:

Sealing of movement joints. Highly resistant and flexible bonding.

