

## Betonfix TERMORASA

ST1-1118

*Cement-based mortar for bonding and skimming coating of certified thermal coats Kimitherm.  
Max. granulometry 0,5 mm*



### DESCRIPTION

**Betonfix TERMORASA** is a ready-to-use skimming mortar, gray or white, composed of hydraulic binders, aggregates with a maximum grain size of 0.5 mm and chemical additives that give it excellent characteristics of water impermeability, resistance to frost and thaw cycles and adhesion to the substrate.

It can also be applied also in very thin layers (the maximum total thickness is 5 mm).

It is compliant and certified according to the requirements of ETAG004 for smoothing and adhesives for external insulation systems.

### ADVANTAGES

- **Versatile:** extremely versatile uses
- **Durable:** durability and resistance to environmental aggressions proven by works dating back to the early 1980s.
- **Easy to apply:** excellent workability and easy to apply (manual or mechanised).

### USES

Bonding and smoothing of insulation panels in KIMITHERM certified system.

### WORKS

- Thermal insulation coating (**SA30**)

### APPLICATION

	Manual application		Mixing water: 5 lt/ 25Kg
	Max thickness per coat: 1,5-2 mm for horizontal application 1,5-2 mm for vertical application 1,5-2 mm for overhead application		

**Betonfix TERMORASA** must be applied on clean, consistent surfaces, free of grease and any other substance that may affect adhesion to the substrate.

Add the quantity of water indicated in the table above and mix thoroughly with a low-speed stirrer (200-300 rpm) until you get a smooth, lump-free mixture.

In case of use on porous substrates (concrete, plasters, etc.), prepare the support wetting it until SSD conditions avoiding water stagnation: this should be eventually removed with compressed air or with a Hoover specific for liquids.

Particular attention must be paid, in case of works on concrete support, to the possible traces of form-release agent that must be completely removed before the application of **Betonfix TERMORASA** (hydro-sandblasting suggested).

**Betonfix TERMORASA** must be applied with a trowel in a maximum thickness of 2 mm per coat, taking care to leave the surface the necessary roughness if a further coat of **Betonfix TERMORASA** is required; the final coat can be smoothed with a sponge float or a metal spatula for a very smooth finish.

For the bonding of insulation panels in external insulation systems, apply the product on the insulating panel, creating perimeter strips and anchoring points in the central areas of the panel at a ratio of 3.5-4.5 Kg/m<sup>2</sup> depending on the flatness of the substrate, taking care not to let the product flow back from the joints between the insulation sheets when laying.

In case of use for the smoothing of insulation panels for external insulation systems, apply the product on the insulating plate in a uniform way to create a first layer of thickness of about 1-2 mm with a consumption of 2-2.5 kg.

After laying and before curing, lay **Kimitech 350** reinforcement mesh with a weight of 160 g/m<sup>2</sup> taking care to completely drown it in the base layer, laying a further coat with an American trowel.

**Kimitech 550+** mesh can be used to reinforce areas that

are more easily subject to stress (wainscot).

After the application of the first layer, apply a second layer of **Betonfix TERMORASA** to achieve a thickness of about 1-1.5 mm.

The quantity of product used for the second coat must therefore be at least 1.5–2 kg / m<sup>2</sup>.

Do not apply the product with imminent rain forecast, on sunny surfaces or with strong wind.

## CONSUMPTION

1,4 Kg/m<sup>2</sup>/mm.

## PACKAGING

Bag 25 Kg.

Pallet 60x25 – 1500 Kg.

## STORAGE

Protect from humidity. Store in a dry, sheltered place. Stored in these conditions and in unopened containers, the product remains stable for 12 months.

Characteristics	Typical value
Appearance	Powder
Colore	Grey, White
Apparent specific weight UNI 9446 [g/cm <sup>3</sup> ]	1,22 ± 0,1
Hazard classification 1999/45/CE e 67/548/CEE	Irritant
Max dimension of the aggregate EN 1015-1 [mm]	0,5
Bulk of fresh mortar EN 1015-6 [Kg/m <sup>3</sup> ]	1680 ± 50
Consistency of the mixture UNI 7044/72 [%]	50-70 %
Workability time EN 1015-9 [minuti]	75 ± 5 mins
Min. Temperature of application [°C]	5
pH of the mixture	12 ± 0,5
Exudation UNI 8988	None
Hazardous substance	According to DM 10/05/2004

Characteristics	Limit value as per ETAG 004	Typical value
Water absorption with method 5.1.3.1 ETAG 004 [Kg/mq]	After 1 h < 1 After 1 day < 0,5	After 1 h < 1 After 1 day < 0,5
Thermo-hygrometric behavior (hot-rain cycle, hot-cold cycle)	Absence of defects as per paragraph 5.1.3.2.1	Resistant to hygrometric cycles
Frost-thaw behavior	If water is absorbed at 1 day <at 0.5 kg/m <sup>2</sup> the system is resistant to frost/thaw	Frost-thaw resistant
Impact resistance	See par. 5.1.3.3 of ETAG 004	Use category II

Characteristics	Limit value as per ETAG 004	Typical value
Permeability to water vapour 5.1.3.4 ETAG 004	< 2	Range between 0,085 (only skim coating) and 0,355 (tonachino finish)
Adhesion between base coat and insulator [MPa]	In dry condition > 0,08	OK
Adhesion between adhesive and substrate (concrete or bricks)	In dry condition > 0,25; 2 days immersion + 2 hours drying > 0,08; 2 days immersion + 7 hours drying > 0,25.	OK
Adhesion between skim coating and insulator	In dry condition > 0,08; 2 days immersion + 2 hours drying > 0,03; 2 days immersion + 7 hours drying > 0,08.	OK
Adhesion after ageing [7 days immersion + 7 days at (23 ± 2)°C, (50 ± 5)% UR]	Between skim coating and insulator > 0,08 MPa	OK

## WARNING

Product intended for professional use.

Different batches of the same raw materials have slightly discordant colors, between one batch of production and the other there could be small chromatic variations which do not affect product performances.

Check the integrity of the package before use and do not use the product with lumps.

In case of application on recently made plasters, wait at least 3 weeks before applying the product.

**Betonfix TERMORASA** is a cement product, all precautions must be observed for a correct seasoning.

Avoid applying the product at temperatures below + 5 ° C.

The equipment used must be washed with water before the product hardens.

The marking obligations are not related to the intrinsic nature of a given product, but to the use for which a specific material is used: before ordering in Kimia, it will be the customer's responsibility to submit all the available documentation to the construction supervision so that they can establish the suitability of the materials (in terms of certifications and performance) in relation to the use for which they are intended.

The technical specifications and application methods recommended herein are based on our current knowledge and experience and do not represent any form of guarantee of the final results obtainable with the product.

It is the customer's responsibility to verify the product suitability for its use by making previous tests before the application and check that this data sheet is still effective and it has not been replaced by more updated versions.

## TECHNICAL SPECIFICATIONS

SK30 - Thermal insulation coat;

**(SK 30)** External thermal insulation prior to bonding and skimming insulating panels with Betonfix TERMORASA smoothing mortar by Kimia S.p.A. or similar product. To bond the panels, consider a consumption of 3.5-4.5 kg/m<sup>2</sup> of mortar. For reinforced skimming coat with Kimitech 350 mesh by Kimia S.p.A. or similar product consider a consumption of 3.5-4.5 Kg/m<sup>2</sup> of mortar.

The high-adhesion single-component flexible skim coat will be prepared and applied by carefully following the instructions given in the technical data sheets provided by the manufacturer and must have the following characteristics:

- Maximum size of the aggregate EN 1015-1: 0.5 mm;
- Compressive strength after 28 days > 15;
- Compliance with the concrete (EN 1542) [MPa] ≥ 1.3;

The mortar will be compliant and certified according to the requirements of the ETAG004 for skim coating and adhesives for external insulation systems. The manufacturer will be able to provide for the most relevant data (adhesion, chloride content) specific reports related to the initial type tests, performed at notified laboratories.