



## Two-pack elastic waterproofing skim coat

### DESCRIPTION

Two-pack elastic cement-based mortar to waterproof and protect concrete surfaces, balconies, terraces, baths and swimming pools. TOWFLEX is a mixture of silica aggregates, cement and fibres in part A and an emulsion of elastic resins in part B. This formula has been designed to ensure perfect workability and excellent adhesion to various substrates. Maximum applicable thickness 4 mm in two coats with ARMATEX C1 reinforcement mesh option. For indoor and outdoor.

Elongation at break:  $32 \pm 3\%$

Thermal compatibility to free-thaw cycles using salt: 0.8 N/mm<sup>2</sup>

Crack-bridging: static at -20°C: Class 3 - dynamic at -20°C Class B3.1

Crack-bridging at +20°C: 0.80 mm - Crack-bridging at -20°C: 0.75 mm

### MAIN PROPERTIES

- Waterproofing against pressurized water: no penetration;
- Resistance to water (positive pressure): 1.5 atm

### TECHNICAL DATA

Classification (UNI 8681 / UNI 8682)	Two-pack chemical and physical drying skim coat for base coat.
Granulometry (EN 13300 / EN 1062)	0.5mm
Reaction to fire (EN 13501-1)	Class E
Vapour permeability (class V) (EN 1062)	Class I, (>150 g/(m <sup>2</sup> ·d))
Water absorption (class W) (EN 1062)	Class W2, < 0.1 Kg/m <sup>2</sup> h <sup>0.5</sup>
Adhesion on concrete (EN 1542)	$\geq 1$ N/mm <sup>2</sup> 0.55 N/mm <sup>2</sup> after immersion in basic water 0.55 N/mm <sup>2</sup> after immersion in water 1.2 N/mm <sup>2</sup> after heat 0.55 N/mm <sup>2</sup> after freeze-thaw cycles 0.6 N/mm <sup>2</sup> to concrete in water
Carbon dioxide permeability (EN 1062)	> 50 m
Apparent bulk volume	polvere: 1400 ± 50 g/l - COMP B: 1050 ± 50 g/l
Bulk volume in paste	A + B: 1800 ± 50 g/l
	12
Type of binder	Cement-based (UNI 8681: TA)
Solid content	100%
Mixing Ratio	33% with pack B; 8.3 litres per 25Kg Pack A
Maximum application thickness	4 mm in two coats
Drying time	24-48 hours between coats. At least 10 days before covering. Drying time depends greatly on environmental conditions.

### CHARACTERISTICS

Pot-life of mixture	About 1 hour
Coverage	1.8 kg/m <sup>2</sup> per mm of thickness
Overpaintable	Compatibility with other products: compatible with all water-based products

Colour range

Grey

Dilution

Water

## APPLICATION

### Notes:

Do not apply on surfaces that are in direct sunlight, frozen or very hot. Do not apply when it is very windy or when there is fog or rain. The conditions must last at least 2 days after application.

### Suitable Substrates:

Waterproofing of balconies, terraces, showers, baths and swimming pools before laying the ceramic coating.

Flexible coating for plaster, screeds, micro-cracked concrete surfaces and prefabricated structures.

Protects against penetration of carbon dioxide and safeguards structures with inadequate reinforcement covering.

Protection of concrete surfaces that can come into contact with seawater, deicing salts such as sodium chloride and/or sulphate salts.

Do not use on gypsum-based surfaces

### Ambient Conditions:

min +8°C max +30°C

### Preparation of the Substrate:

Concrete substrates should be carefully prepared by manual or mechanical brushing and/or washing. All parts removed must be restored with concrete repair mortar such as TOWERIP (for thicknesses of 10 mm or greater) or TOWCEM skimming mortar (for thicknesses between 3 and 20 mm).

The plaster must be adequately cured (at least 20 days), solid with the substrate, resistant and free of dusts and any type of paint.

Existing flooring or ceramic coating, etc. must adhere solidly to the substrate and free of any substances such as oils or waxes that could compromise adhesion.

Do not apply to gypsum substrates and substrates with poor mechanical resistance such as foamed screeds.

### Type of Equipment:

serrated spatula, mechanical low speed mixer

### Application Procedure:

Pour TOWFLEX pack B into a suitable container, slowly add TOWFLEX pack A while mixing with a low speed mixer. Do not add water or other ingredients. If only a part of the contents is to be used, the components must be weighed. Mix thoroughly for several minutes until the mixture is smooth and free of lumps. Do not prepare the mixture by hand.

Using a spatula or spraying equipment, apply a maximum of 2 coats. Wait 5-7 hours and apply a second coat.

In dry weather or highly ventilated areas, protect the surface from rapid evaporation with plastic sheets.

If the substrate is badly cracked or subject to deformation, add a glass fibre mesh weighing 160 g/m<sup>2</sup> with an anti-alkaline treatment to the Towflex.

Any deep extensive cavities on the surface should be repaired with Towerip.

## STORAGE

### Disposal and safety indications:

Dispose of in accordance with local regulations.

For information on possible hazards, refer to the safety data sheet

### Packaging:

KIT 33.3 Kg Pack A: 25 kg bags +

Pack B: 8.3 kg cans

### Storage:

1 year on a pallet and when stored in a dry place in undamaged packages at between 5 and 30°C.

## TECHNOLOGIES/CERTIFICATIO



