Product Data Sheet

TOWFLEX

Two-pack elastic waterproofing skimcoat

DESCRIPTION

Two-part elastic cement mortar for positive pressure waterproofing of concrete surfaces, balconies, terraces, below ground plinth applications. Composed of a mixture of silica aggregates, cement, fibers (part A) and emulsion of elastic resins (part B). The mixture of components has been designed to have a perfect workability and a very high adhesion to various media. Maximum applicable thickness 4 mm in two passes with ARMATEX glass fibre mesh reinforcement within first layer. Suitable for subsequent finishes being applied. For outdoor.

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/(m²·d))
Water absorption (class W) (EN 1062)	Class W2, < 0.1 Kg/m²h$^{0'5}$
Adhesion on concrete (EN 1542)	≥ 1 N/mm² 0.55 N/mm² after immersion in basic water 0.55 N/mm² after immersion in water 1.2 N/mm² after heat 0.55 N/mm² after freeze-thaw cycles 0.6 N/mm² 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
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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.
Elongation at break	32 ± 3%
Thermal Compatibility Part 1 (EN 13687-1)	0,8 N/mm2
	static at -20°C: Class 3 - dynamic at -20°C Class B3.1 +20 °C: 0.80 mm - Crack bridge at -20 °C: 0.75 mm

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CHARACTERISTICS

Pot-life of mixture	About 1 hour
Coverage	1.8 kg/m2 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:
High Density closed cell insulation materials.
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:
Ensure the surface is clean and installed as specification.
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/m2 with an anti-alkaline treatment to the Towflex.

STORAGE

Disposal and safety indications:
Dispose of in accordance with local regulations.
For information on possible hazards, refer to the safety data sheet
Packaging:

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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.