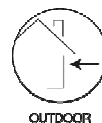


INDOOR



OUTDOOR



WATER
BASED



TROWEL

Anti-shrinkage, fibre-reinforced mortar R3

DESCRIPTION

Ready to use cement based mixture composed of cement and industrial sands (max. particle size of 1.2 mm) and reinforced with polyamide fibres. Suitable for vertical restorations, the applied layers have very high adhesion, durability, impermeability, exceptional mechanical and chemical resistance, and practically no shrinkage, resistant to freeze and thaw cycles. For indoor and outdoor use. For professional use.

MAIN PROPERTIES

- Excellent workability
- Can be worked with a trowel

TECHNICAL DATA

Classification UNI 8681	One-pack, matt, physical drying, solvent-free vinyl plaster for base coat.
Maximum granulometry EN 1062	1.2mm
Maximum application thickness	minimum 1 cm maximum 5 cm
Compressive strenght EN 12190	Class R3
Chloride Content EN 1015-17	≤ 0,05%
Bond strength EN 1542	≥ 1,5 MPa
Determination of shrinkage and expansion EN 12617-4	2 MPa
Resistance to carbonation EN 13295	Pass
Elastic modulus EN 13412	20GPa
Thermal compatibility - Part 1: Freeze-thaw cycling EN 13687-1	≥ 1,5 MPa
Capillary absorption EN 13057	≤ 0,5 Kg/(m ² ·h ^{0,5})
Reaction to fire	Class A1
VOC	Not covered by Directive 2004/42/CE

CHARACTERISTICS

Colour range	Grey
Coverage	19 kg/m ² per mm of thickness
Mixing Ratio	17% with water 4.25 Litres per 25Kg package
Diluted with	Water
Pot-life of mixture	About 1 hour
Drying time	Under normal conditions, it can be covered after 12-24 hours; however, drying time depends on the absorption of the substrate and environmental conditions
Overpaintable	Compatibility with other products: compatible with all water-based products

APPLICATION

Suitable Substrates:

Structural repairs of cement-based surfaces. Do not use on gypsum-based surfaces

Preparation of the Substrate:

All substrates should be carefully prepared by manual brushing and/or washing. Clean the reinforcement bars with a steel brush, then apply Griptow passivating mortar. Wet the contact surfaces until they are completely soaked: start a few hours before casting to ensure that the pores in the substrate are saturated. Immediately before application, remove any excess water on the surface with compressed air or sponges. Do not apply on gypsum-based substrates, painted surfaces or substrates with low mechanical strength.

Application Procedure:

In a cement mixer that already contains 90% of the water, mix the correct amount of mortar to create the mixture; mix until it is smooth and free of lumps (normally around 5 min). Add water as needed to adjust workability.

Using a mason's trowel or mechanical plastering machine, apply a layer that is not thinner than 1 cm and not thicker than 4-5 cm. TOWERIP can be finished with a trowel. Keep the surface of the mortar moist and in any case prevent rapid evaporation of the water content. This operation is particularly important when the weather is hot, dry and windy. On thick vertical surfaces or ceilings, application must be performed in stages to prevent the weight of the material itself from causing "tears" while it is still plastic and thus causing cracks.

Type of Equipment:

spatula, mason's trowel

Notes:

TOWERIP expands slightly to compensate for shrinkage of the mix. 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.

Ambient Conditions:

min +5°C max +35°C

STORAGE

Packaging:

25 kg bags

Duration and Preservation:

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

Dispose of in accordance with local regulations.

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

TECHNOLOGIES/CERTIFICATIONS

