



Fluid mortar with controlled shrinkage R4

DESCRIPTION

Ready-to-use cement-based mixture for vertical repairs in formworks, composed of cements and natural sands (max. particle size of 2.5-3 mm) and reinforced with fibres of polyvinyl acetate (PVA). The layers applied adhere perfectly and offer durability, impermeability and exceptional mechanical and chemical resistance and are practically free of any shrinkage. For outdoor use.

MAIN PROPERTIES

- Pourable;
- For vertical repairs in formworks

TECHNICAL DATA

Volatile organic compounds (VOC)	Not covered by Directive 2004/42/CE.
Classification (UNI EN 1504-2)	Base-coat mortar, solvent-free, single-component, physical-drying, matt, cement-based.
Granulometry (EN 13300 / EN 1062)	3mm
Chloride Content (EN 1015-17)	≤ 0.05%
Bond strength (EN 1542)	≥ 2.0 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 (EN 13687-1)	≥ 1.5 MPa
Capillary absorption (EN 13057)	≤ 0.5 Kg/(m ² ·h ^{0.5})
Apparent bulk volume	1450 ± 50 g/l
Bulk volume in paste	2000 ± 50 g/l
Type of binder	Cement-based (UNI 8681: TA)
Mixing Ratio	15% with water; 3.75 Litres per 25Kg package
Maximum application thickness	minimum 1 cm maximum 5 cm
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
Reaction to fire (EN 13501-1)	Class A1
Compressive strenght (EN 12190)	Class R4

CHARACTERISTICS

Pot-life of mixture	About 1 hour
Coverage	20 kg/m ² per mm of thickness
Overpaintable	Compatibility with other products: compatible with all water-based products
Colour range	Grey

Dilution

Water

APPLICATION

Notes:

TOWERIP COLABILE 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.

Suitable Substrates:

Structural repair of concrete, vertical walls in formworks or concrete flooring, where the particular conditions require using a fluid mortar.

Ambient Conditions:

min +5°C max +35°C

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.

Type of Equipment:

cement mixer, spatula, mason's trowel,

Application Procedure:

In a container with water, pour the correct amount of TOWERIP COLABILE to create the mixture and mix with a low speed mixer until it is smooth and free of lumps (on average about 5-6 min). Add water as needed to adjust workability. The total amount of water may vary depending on the weather conditions.

Pour the mortar into the suitably sealed formworks, taking care to allow the air to escape and thus prevent the formation of internal bubbles. Max thickness

that can be obtained with TOWERIP COLABILE: 4-5 cm. In the absence of confinement, greater thicknesses must only be produced after having positioned the contrast bars and taking care to apply a steel cover of at least 2.5 cm.

STORAGE

Disposal and safety indications:

Dispose of in accordance with local regulations.

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

Packaging:

25kg bags

Storage:

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

TECHNOLOGIES/CERTIFICATIONS

