



Durox®Kleber 986

Mineral 1-component adhesive for structural improvements

Durox®Kleber 986 is the adhesive for Durox®Carbomesh 163 and Durox®Spiralanker 164. Durox®Kleber 986 can also be used for grouting. It improves the stability of masonry and concrete.

Durox®Kleber 986 guarantees a durable bond between the Carbon Mesh or spiral anchor and the structure. The hydraulically binding matrix consists of fibres, a polymer and a pozzolanic binder, which harmonises perfectly with the Durox® products.

Application

- Structural improvement
- Protection against vibrations (earthquake)
- Static reinforcement
- Cracked surfaces
- Damaged surfaces
- Bonding of Durox® spiral anchors

Benefits

- adapts to any surface
- Seamless and jointless
- simple fabrication
- strengthens masonry
- strengthens concrete
- non-flammable
- can also be used on damp substrates

Substrate preparation

Existing plaster and protective coatings must be removed. As with any coating, the surface must be stable, load-bearing and free of substances that have a separating effect. Any damage to the substrate is repaired with a mortar of Durox®Kleber 986, which can also be used to create a smooth and even surface. To do this, reduce the amount of water.

To prevent the adhesive from burning on absorbent surfaces, the surface is treated with a primer consisting of Cembond®956 and 3 parts water. The ideal processing temperature is 15°C - 35°C. Low temperatures lead to slower setting, whereas higher temperatures can accelerate the setting and hinder the processing.

The fresh coating must be protected from direct sunlight, rain and draughts. To protect the coating from wind and sun, wet cloths or HydroBloc®Curing 996 can be used.

Processing

A 3 mm thick layer of adhesive is applied to the prepared substrate and the fabric is immediately embedded. Durox®Carbomesh is coated with another layer of adhesive (3 mm) and embedded. As Durox® is very sticky, wet tools are used to smooth the surface.

The positioning of Durox®Carbomesh, must always be 0°/90° to the floor or the laying direction of the masonry. If several layers of Mesh are laid, the next layer is positioned +45°/-45° or according to the architect's instructions. Joints must overlap by at least 10 cm.

Properties

Components	1 Powder Component
Characteristic	Mineral adhesive for Carbomesh
Mixing liquid	Water
Mixing ratio	Powder : Water = 100 : 25 (kg)
Bulk density powder	1,13 +/-0,05 kg/L (20°C)
Density fresh mortar	1,60 +/- 0,05 kg/L (20°C)
Consumption per mm	1,60 kg/mm layer thickness
Consumption per m ² with 6 mm layer thickness	9,60 kg
Maturing time after mixing	2 - 3 minutes
Processing time after mixing	20 - 30 minutes at 20°C
Setting time	24 h, 20°C
Package	bag of 20 kg
Primer	Cembond®956 : Water = 1 : 3 (kg)
Curing	HydroBloc®996
Carbon Mesh	Durox®Carbomesh 163

When used as an adhesive and mortar according to instructions, Durox®Kleber 986 is a harmless substance. It is nevertheless recommended to wear protective clothing and goggles during processing and to ensure that the usual industrial hygiene rules are observed. The national regulations, e.g. of the professional associations, handling and processing of cement must be observed.

The product should be stored in a dry place and should not be accessible to children or unauthorized third parties. Minimum expiration date for dry storage, 9 months.

These technical information describe the present-day state of knowledge these product. They should only inform about the possibilities of application and could not release the applicator of his commitment to check the possibility to use the product for the required application. Information for processing can be found in processing instructions of our product. Information about safe handling can be found in our current safety data sheet.

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ARCAN Waterproof

ARCAN GmbH Spezialbaustoffe

Kleinniedesheimer Strasse 19
D-67240 Bobenheim-Roxheim
Phone: +49 (0)6239 - 99 78 20
Mail: office@arcan.biz
Web: www.arcan.biz

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