
Anticorrosive cementitious mortar

DOMOFER is a cementitious mortar for corrosion protection of structural steel reinforcement and bonding bridge, modified with synthetic resins, quartz aggregates and corrosion inhibitors. It satisfies the requirements according to EN 1504-7.

Field of application

DOMOFER is preventive used for protecting the reinforcing construction from corrosion or restoration of reinforced concrete which has been e.g. carbonated, as well as for bonding layer between old concrete and repairing mortars.

Advantages

- Mortar ready for use, adding only water.
- It has excellent adhesion to metal reinforcement and the cement substrate because of its composition.
- The anticorrosive effect is derived from the highly alkaline environment of the hardened mortar and the presence in it of corrosion inhibitors.
- Minimizes the risk of cracking because it doesn't shrink.
- Quick and easy to use.
- High initial strength.
- It is resistant to weather conditions and frost, after hardening.
- Does not contain chlorides and other mineral salts which cause corrosion or detachment.

Method of use

Substrate condition:

The reinforcement must be clean, free from rust, oil, dust. The substrate surface must be sound, free from grease and loose particles.

The substrate and the reinforcement must be prepared by suitable mechanical means such as sandblasting, high pressure water jetting etc. Before applying the product, the substrate must be thoroughly dampened

Mixing:

DOMOFER:WATER 3.0-3.4:1 w/w

(about 2.9-3.3 L water for 10 kg or 1.5-1.7 L water for 5 kg or 0.29-0.33 L water for 1 kg)

Fill a pail with water and add DOMOFER. Then, mix well until a homogeneous mass is created. Better mixing is achieved with low speed mixer so as not to introduce air into the mixture.

Application:

The material is applied with a spatula and can be scrubbed after 6-8 hours.

The material is applied immediately after the cleaning of the reinforcement, with a brush, roller or spray for large surfaces. The material is applied in layers with a maximum layer thickness of 1 mm. Every time a new layer is applied once the previous one has been hardened.

Repairing mortar DOMOREPAIR R3 or R4 is applied after 24 hours

Additional information:

- Do not add cement, aggregates or additives to the product.
- Do not add water if the mortar has begun to be set.
- Do not use at temperatures lower than 5°C and higher than 35°C or during rain. When the operating temperature is around 5-8°C, then the water used for mixing and saturation of the substrate is recommended to be warm to hot, while at operating temperatures of 30-35°C, water is recommended to be cold.

- After applying DOMOFER during the summer months, is recommended the material to be wetted in order to be protected from dehydration.
- The product contains cement and is classified as irritant.

Storage

It can be retained at least 12 months from its production day, in unopened package, protected from the moisture.

Packaging

Pails of 1 kg & 5 kg and 10 kg.

Consumption

50-70 g/m of reinforcement for 1 mm thickness.

Specifications

Form	Powder
Color	Tile red
Bulk density	1.04 ± 0.03 g/cm ³
Mixing ratio	Domofer : Water 3.0-3.4 : 1 w/w
Pot life	>3 hours
Application temperature	+5°C to +35°C
Compressive strength (EN 12190)	31 N/mm ²
Flexural strength (EN 196-1)	9.1 N/mm ²
Bon strength (EN 1542)	1.0 N/mm ²

All the technical data stated in the present Technical Data Sheet are based on laboratory tests and the knowledge and experience of the company. Different conditions may apply at field applications that are beyond the control of the company. Therefore, the end user is ultimately responsible to make sure that the product is suitable for the application in question and to know the real conditions of the project.

