
Fiber-reinforced repairing & anchoring mortar of R3 type

DOMOREPAIR R3 is a fiber-reinforced, thixotropic, non-shrinking, ready to use repairing mortar, for up to 20 mm maximum thickness per layer. A product suitable for repairing, anchoring and finishing architectural details and concrete.

Field of application

DOMOREPAIR R3 is suitable for application:

- In any structural concrete repair as industrial floors, bridges, sewage pipes, boardwalks, etc.
- For damaged corners and finishing repairs
- For filling cavities, cracks, small holes, etc.
- At the joints of prefabricated elements
- For placing all kinds of anchoring like hooks, steel, rods, etc.
- For leveling and smoothing surfaces prior to final layers, such as paints, industrial floors, waterproofing coatings, etc.

Advantages

- Ready to use. Just add water.
- Excellent adhesion on the substrate, due to its composition of organic polymers and synthetic resins.
- Minimizes danger of cracking, because is non shrinking.
- Quick setting & easy to use.
- Thixotropic.
- High initial strength.
- Excellent results at assembling.
- Waterproof, freeze & weather resistant after hardening.
- Does not contain chlorides or other corrosive salts.

Method of use

Substrate condition:

The application surface (concrete, mortar, stone, and brick) must be sound and stable. Loose parts, rust, grease, dust and cement skin must be removed prior to application. Smooth concrete surfaces should be roughened.

Before the DOMOREPAIR R3 application wet well the substrate with water but without creating standing water.

Mixing

Mixing ratio:

DOMOREPAIR R3:WATER 4.2-5.6:1 w/w
(about 4.5-6 L water for 25 kg)

Fill a pail with water and add DOMOREPAIR R3. Then, mix well until the blend is homogeneous, without lumps.

Optimal mixing is achieved with a low power agitator.

Mixing by hand is not advised.

Application:

Apply the mix by spatula or trowel, depending on the situation.

When repairing corners and edges, it is recommended to use wood formwork until the hardening of DOMOREPAIR R3.

Do not mix more product that you intend to use.

Additional information:

- When preparing elements of large thickness (more than 1-2 cm) apply in layers. Every time a new layer can be applied without the prior been dried completely.
- To avoid too fast setting of the already applied mix and to prevent crack forming, protect the treated surface with a wet cloth or wet it with water.
- Setting time is increased when the temperature is low or when more water is added than necessary.
- For vertical surfaces or overhead work, prepare a thick mix with a ratio of 5.6:1 w/w.
- Do not add cement, sand or gravel to DOMOREPAIR R3.
- Do not add water if the mortar has begun to set.

- Do not apply at temperatures below 5°C and above 35°C or during rain. When the application temperature is at 5-8°C, then the mixing and saturation water of the substrate is recommended to be warm to hot. At 30-35°C, water is recommended to cold.
- 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

Bags of 25 kg.

Certificates

The product is certified according to EN 1504-3 (Structural and non-structural repairs) as R3 repairing mortar.

Consumption

17-19 kg/m² for a layer of 1 cm thickness.

Specifications

Form	Powder
Color	Grey
Bulk density	1.40 ± 0.04 g/cm ³ (23°C)
Mixing ratio	Domorepair R3 : Water 4.2-5.6 : 1 w/w
Specific weight of mix	1.9-2.0 ± 0.06 kg/L (23°C)
pH of mix	12
Application temperature	+5°C to +35°C
Pot life	45 min (20°C)
Compressive strength (EN 12190)	28.6 MPa
Chloride ion content (EN1015-17)	0.0151 %
Adhesive bond (EN 1542)	1.53 MPa
Restrained shrinkage / expansion (EN 12617-4)	1.51 MPa
Carbonation resistance (EN 13295)	Smaller depth of carbonation from control concrete

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.