



REP MUR F

Thixotropic fibre reinforced structural repair mortar

Filling of voids and cracks

Reparation of concrete surfaces

High mechanical properties

With shrinkage compensation

Highly thixotropic, outstanding workability

Can be hand, trowel or spray applied. Thin to thick layers

Fibre reinforced. Chloride-free

Contains corrosion inhibitor additives. Suitable for the preservation or restoration of the passivation (Principle 7, method 7.1 and 7.2 of EN 1504-9). "Increasing cover with additional mortar and replacing the contaminated or carbonated concrete"

Due to its fine aggregate and light colour there is no need of cosmetic mortar application

Classified R3 according UNE EN 1504-3



REP MUR F

Thixotropic fibre reinforced structural repair mortar

Areas of application:

Filling of voids and cracks.
Repairing and levelling of concrete surfaces.
Filling of joints between concrete sections.
Repair of concrete precast elements.
Structural repair of concrete structures such as: balcony edges, cantilevers, pillars, beams...
External and internal.

Properties:

Excellent adhesion to concrete.
Hardens compensating shrinkage to minimize crack apparition.
High mechanical strength.
Can be hand, trowel or spray applied.
Good abrasion resistance.
Can be applied from 0,5 mm up to 70 mm.
Due to its fine aggregate and light color there is no need of cosmetic mortar application.

Substrate preparation:

The surface can be dry or moist but should be mature, stable, sound, clean and free of barriers to adhesion (dust, grease oil, loose paints,...). Damaged or contaminated concrete must be removed to obtain a keyed surface (grit or high water pressure blasting are recommended). Cut the edges of the repair vertically to a minimum depth of 5 mm.

In exposed reinforcement framework to a minimum grade of Sa 2.

The substrate to be applied on REP MUR F, will be of at least +5 ° C and maximum +30 ° C.

Priming:

The prepared substrate should be presoaked, preferably for 24 hours, but at least 2 hours before applying REP MUR F. The surface must be mat-damp, but without standing water.

Especially for hand applications or on low porosity concrete, the adhesion can be improved using:

- Bonding slurries: mix REP MUR F with and admixture of water and ARDEX E100 (1:1) to a stiff brushable slurry consistency, and apply onto the pre-dampened surface using a brush.
- Epoxy primer: use ADIPOX PLUS (see Technical Data Sheet) as a bonding coat for REP MUR F.

The application of the REP MUR F on the primed surface must be done wet on wet. Do not allow the bonding layer to dry out completely.

Application:

To the required amount of clean water in a clean mixing container, add the powder whilst stirring thoroughly until a slump free mortar is produced. The mix proportions are: 25kg REP MUR F into 3¾ – 4½ litres of clean water. (4 parts powder to 1 part volume water).

It is recommended to mix the product mechanically, either in a cement mixer or with a stirrer.

Its high thixotropy allows using more water than standard mortars to obtain the needed consistency.

REP MUR F can be hand, trowel or spray applied. Apply mixed product directly to the prepared damp substrate, or wet in wet onto the primed surface.

Apply to the desired layer thickness of 0,5 to 70 mm and level using a screeding beam, trowel or wooden board.

A thin contact layer before building up to the required thickness, wet on wet, will improve the wet adhesion and cohesion of the mortar, especially in case of hand application.

If two or more layers are needed apply the new layer wet on wet onto the existing layer.

Smoothing with a trowel or finishing by float or sponge can be done as soon as the mortar has begun to stiffen.

Curing:

Protect the fresh mortar from earlier dehydration or freezing by using usual curing methods (polyethylene film, damp clothes, and curing agents).

Caution:

Contains cement. Irritates the eyes and the skin. May not come into children's hands. Avoid any contact with the eyes and the skin. In case of contact wash thoroughly with water at once and consult a doctor. Wear suitable protective gloves.

Physiologically and ecologically safe when in a set state


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Technical Data

(Based on tests carried out in our laboratory in accordance with current regulations)

Mixing ratio:	Approx. 3,75 - 4,5 l. water : 25 kg. powder (eq.: 1 vol. water : 4 vol. powder).
Density:	Approx. 1,5 Kg/l.
Fresh mortar density:	Approx. 1,7 kg./l.
Material requirement:	Approx. 1,45 kg powder/ m ² and mm.
Working time (+20°C):	Approx. 1 hour.
Compressive Strength:	After 28 days approx. 41 N/mm ²
Flexural Strength:	After 28 days approx. 9,3 N/mm ²
Packaging:	25 kg paper bags.
Storage:	can be stored for approximately 12 months in dry rooms in originally sealed packaging.

	
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09 50463 EN 1504-3:2006 REP MUR F Polymer modified cementitious mortar (PCC) for structural repair of concrete structures EN 1504-3:R3	
Compressive strength:	<i>Class R3</i>
Chloride ion content:	<i>≤ 0.05 %</i>
Adhesive bond:	<i>≥ 2.0 Mpa</i>
Restrained shrinkage/expansion:	<i>≥ 2.0 MPa</i>
Carbonation resistance:	<i>Passed</i>
Elastic modulus:	<i>≥ 20 GPa</i>
Thermal compatibility Part 1 - Freeze/thaw attack with de-icing salt:	<i>≥ 2.0 MPa</i>
Skid resistance:	<i>NPD</i>
Coefficient of thermal expansion:	<i>NPD</i>
Capillary absorption:	<i>≤ 0.5 kg/(m²·h^{0.5})</i>
Reaction to fire:	<i>AI</i>
Hazardous substances:	<i>Compliance with 5.4 of EN 1504-3</i>

Ardex guarantees the quality of its products.

The recommendations for application presented here are based on trials and practical experience.

We will not be held liable for dosage and applications not conforming to these recommendations.

For any queries or doubts about the product, please contact our Technical Department.

This datasheet will be valid until a new edition is issued.

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