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# REP MUR AR

## **Fibre reinforced structural reparation mortar with corrosion inhibitor additives**

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Filling of voids and cracks

High mechanical properties and shrinkage compensation

Can be hand, trowel or spray applied.

Specially suitable in aggressive environments - resistant to sulphates

Fiber-reinforced

Outstanding workability

Chloride-free

Classified R4 according UNE EN 1504-3



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# REP MUR AR

## Fibre reinforced structural reparation mortar with corrosion inhibitor additives

### DESCRIPTION

REP MUR AR is a polymer modified cementitious mortar (PCC) for structural repair of concrete structures.

### APPLICATIONS

For external and internal use.

- Repairing and levelling of concrete surfaces, especially in aggressive environments.
- Resistant to sulphates, protects the framework of the fixed concrete.
- Filling of joints between concrete sections.
- Repair of concrete precast elements.
- Structural repair of concrete structures such as: balcony edges, cantilevers, pillars, beams, etc.

### FEATURES & BENEFITS

- Excellent adhesion to concrete.
- Hardens compensating shrinkage to minimize crack apparition.
- High mechanical strength.
- Can be hand, trowel or spray applied.
- Good chemical resistance, resistant to aggressive environments with sulphate presence.
- Additivated with corrosion inhibitors protects the fixed concrete against corrosion.
- Good abrasion resistance.
- Can be applied from 0.5 mm to 70 mm

### 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, etc.). 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 according ISO 8501-1 / ISO 12944-4.

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

### MIXING

The prepared substrate should be presoaked, preferably for 24 hours, but at least 2 hours

before applying REP MUR AR. The surface must be mat-damp, but without standing water.

The application of the REP MUR AR 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 AR into 5 – 5 ¼ litres of clean water. (i.e. 3 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 to obtain the needed consistency.

REP MUR AR 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).

### TECHNICAL DATA

Mixing ratio	approx. 5.0 - 5.25 L water : 25kg powder (1 vol water : 3 vol powder)
Density	Approx. 1.6kg/l
Yield	approx. 1.6kg of powder / m <sup>2</sup>

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Workability time (20°C)	approx. 2.5 hours
Compressive Strength	approx. 48N/mm <sup>2</sup> (Class R4)
Flexural Strength	approx. 8 N/mm <sup>2</sup>
Adhesive bond	> 2.0 Mpa
Restrained shrinkage/ expansion	> 2.0 Mpa

### PACKAGING

REP MUR AR is packed in 25kg paper bag.

### STORAGE AND SHELF LIFE

REP MUR AR can be stored for up to 12 months in its original unopened packaging. The product should be stored in a dry place between 5°C and 30°C. Keep away from frost, direct sunlight and sources of heat.

If stored correctly, as detailed above, the shelf life of this product is 12 months from the date shown on the packaging.

### SAFETY PRECAUTIONS

Avoid contact with eyes and skin. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical attention. Safety goggles and gloves must be worn at all times while the product is being mixed and when applying the product.

If applying indoors, ensure that the site is well ventilated. The MSDS is available upon request and online at [www.ardex.com.sg](http://www.ardex.com.sg).

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