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# RESICEM 748

## MONO-COMPONENT MORTAR FOR MENDING, RESTORATIONS, PLASTERS

RESICEM 748 is a mono-component, selected quartz inert and polymer-based pre-packaged cement mortar. It is thixotropic, fibre-reinforced and with shrinkage reducing admixtures. It is resistant to sulphates.

### Areas of use

RESICEM 748 is used to:

- Restore concrete structures and reconstruct the concrete cover;
- Structural reinforcement of masonry;
- Settling superficial defects on horizontal and vertical structures;
- Restoration of concrete in stacks, beams, plankings, bridge joints and railways and road viaducts;
- Restoration of concrete in galleries, tanks, channels, bridges, dams, etc.;
- Mending of prefab elements;
- Packaging of structural screeds;
- Packaging of plasters with high resistance to carbonation features.

### Description

RESICEM 748 is particularly suitable to restore concrete because it structurally adheres to it and it does not display shrinkage phenomena. It is a pre-mixed system that only requires water to be added as per the ratio shown on the sheet.

Mortar prepared with RESICEM 748 has the following features:

- excellent adhesion to supports, concrete and reinforcing rods;
- high mechanical resistance;
- it does not contain chlorides and iron elements which may eat into the metal armours of the concrete;
- resistant to sulphates;
- hand or plastering machine applicable, easy to prop up and fast to float-finish;
- applicable vertically with thicknesses from 0.5 to 3 cm;
- resistant to antifreeze salts;

### How to use

#### Preparation of the support

The support must be healthy, compact, clean, oil and fat stain-free: remove corroded or decayed concrete through bush-hammering, sandblasting or other suitable method until you get to the intact support.

Metal armour at sight must be white metal sandblasted (SA2 – SA3 degree) and protected with RESICEM 715 carefully applied in two coats: if it is not possible to sand-blast, use metal brushes.

### Preparation of the product

Firstly, pour  $\frac{3}{4}$  of required water in the mixer or in the bucket and add RESICEM 748 when shaking: mix at low speed to avoid excessive air intake for 3-4 minutes and then add the remaining water. We do not recommend mixing by hand and partially using the package.

Let the mixture settle for a few minutes before application.

### Application

Abundantly wet the support. For better adhesion of new filling layers we recommend roller or brush laying of RESIRIPRESA 902, acryl-cement cod shut casting on which, layer upon layer, RESICEM 748 mortar is applied.

Apply by hand or with plaster sprayer for the thickness required. Do not exceed 2 – 3 cm at a time and compact, smoothen and hand-float.

### Notes

Application temperature from +5°C to + 35°C

After applications during the summer season, keep surfaces wet for perfect curing of the filling material applied.

Keep the surface of the mortar applied wet for at least 24 hours.

### Mechanical characteristics

Mechanical characteristics change depending on the amount of water used: the table below refers to mortar packages with 4 lt of water for 25 kg powder product at +20°C and 65% r.h.

Compression strength	
after 24 hours	18 - 20 N/mm <sup>2</sup>
after 3 days	30 - 35 N/mm <sup>2</sup>
after 7 days	45 - 48 N/mm <sup>2</sup>
after 28 days	60 - 65 N/mm <sup>2</sup>
Bending strength	
after 24 hours	4 N/mm <sup>2</sup>
after 3 days	7 N/mm <sup>2</sup>
after 7 days	10 N/mm <sup>2</sup>
after 28 days	11 N/mm <sup>2</sup>
Elastic modulus	28000 N/mm <sup>2</sup>
Adhesion to concrete after 28 days with direct traction	>2 N/mm <sup>2</sup>
Density	2.10 kg/dm <sup>3</sup>
RESICEM 748 + WATER mixture ratio	100 + 16

### Times of use

Apply RESICEM 748 within 30 minutes from mixture; the product starts setting after approx. 5 hours. The product can be walked on after 18 hours and can be subject to mechanical stress after 3 days; full hardening occurs after 28 days.

### Consumption

With a 25 kg bag, use 4 lt of water; approx. 13 lt of mortar can be obtained (yield of a bag) from this mixture. Consumption for 1 cm thickness is approx. 19 kg/m<sup>2</sup>

### Packaging and storage

Available in 25 kg packages.

The product remains unaltered for at least six months if stored in a dry and sheltered place and in its original and sealed containers

### Cleaning of tools and health precautions

To clean tools use water.

The product is not dangerous: wearing gloves and glasses to protect hands and eyes is enough.

In case of contact with the skin, rinse immediately with water and neutral soap; in case of contact with eyes, rinse immediately with running water for 10/15 minutes, then seek medical advice.

**Do not rinse with solvents.**

*The information supplied in this sheet is the result of the best practical and laboratory experiences of RESIMIX, which guarantees its products when used according to the instructions supplied. It is nonetheless up to the customer to ensure the product is suitable for the intended use. The manufacturer declines any responsibility for incorrect use or uses beyond his control. RESIMIX reserves the right to make changes to the data. For any request, please contact the RESIMIX Technical Assistance Office.*