



RESICEM 748

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.

Features

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

Support preparation

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 and application

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.

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.

Technical features

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

Compression strength		
	after 24 hours	18÷20 MPa
	after 3 days	30÷35 MPa
	after 7 days	45÷48 MPa
	after 28 days	60÷65 MPa
Bending strength		
	after 24 hours	4 MPa
	after 3 days	7 MPa
	after 7 days	10 MPa
	after 28 days	11 MPa
Elastic Modulus		28000 MPa
Adhesion to concrete after 28 days (direct traction)		> 2 MPa
Density		2,10 kg/dm ³
Ratio A + water (by weight)		100 + 16

Hardening time

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 l of water; approximately 13 l of mortar can be obtained (yield of a bag) from this mixture. Consumption for 1 cm thickness is about 19 kg/m².

Packaging and storage

Available in packs of 5, 10 and 20 l.

In original and closed packages, the product remains unchanged for at least 6 months if it is kept in an environment with a temperature between 10 and 30 °C.

Do not expose containers to frost, heat sources and sunlight.

Cleaning of tools and health precautions

Before handling the product, consult the relative safety data sheet.

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 solvent.

The information contained in this sheet is dictated by RESIMIX's best practical and laboratory experience, which guarantees its products when applied according to the instructions. However, the Customer is responsible for verifying that the product is suitable for the intended use. The manufacturer declines all responsibility for the results of incorrect applications or in any case beyond his control. RESIMIX reserves the right to make changes to the data. For any further clarification, we recommend our customers to contact the Technical Assistance Office