RR 32

DATA SHEET

Cement mortar for consolidating slopes and plastering or rendering over walls made using reinforced polystyrene panels

Interior/Exterior

Sack

Silo

By machine

Composition

RR 32 is a premixed material made from Portland cement, graded sands and additives to improve workability and adhesion.
RR 32, in the version produced at the Bagnasco plant, is made using cements that can be defined as "Sea-water resisting cements" ("Prise-mer"), regulated by standard NF P 15-317 (September 2016).

Supply

- In bulk in silo (available in Italy, France, Switzerland, Spain and Portugal)
- Special sacks with protection against moisture, approx. 30 kg. (The product packaging will gradually pass from 30 kg sacks to 25 kg sacks)

Use

RR 32 is used for consolidation work in general, e.g. consolidation of slopes and plastering over walls where high mechanical strength is required.

Substrate preparation

The substrate must be free from dust, dirt etc.. Any traces of oil, grease, wax etc. must be removed beforehand. If using on traditional masonry, any parts that are crumbling or coming loose must be removed until until obtaining a solid, strong and rough substrate, before proceeding with the repair operations.

Mixing

RR 32 loose and in sacks is mixed and applied using a continuous mixing pump (such as FASSA I 41).
For all applications, metal mesh with a suitable mesh size and thickness is required, appropriately fixed to the substrate.
If using on traditional masonry, saturate the substrate before applying RR 32 mortar.
Application on walls made from reinforced expanded polystyrene panels comprises two stages: the first, coarse coat covers the galvanised reinforcing mesh, the second finish coat is then applied at the end, after the first coat has hardened. The same application procedure can be used for consolidation work on masonry in general.
After the mortar has cured (at least 28 days), apply a skim coat to the surface using products such as A 64 or A 64 R-EVOLUTION, making sure to embed FASSANET 160 alkali-resistant fibreglass mesh in the first layer.
Thick outdoor coatings should preferably be used with a minimum grading of 1 mm so as to minimise the possible formation of cracks.

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Warnings

- Product for professional use.
- As the hardening depends on the hydraulic setting of the cement, a temperature of +5°C is suggested as a minimum value for application and for obtaining proper hardening of the mortar. Below this value, setting would be delayed excessively and below 0°C the fresh or partially hardened mortar could be broken up by frost.
- For application temperatures between 5°C and 10°C, to overcome the problem of mechanical strength being achieved very slowly, it is recommended to use water at a temperature of around 20°C.
- When ambient temperature is above 30°C, it is recommended to use cold water.
- Dampen the mortar in the first 24 hours in order to avoid rapid evaporation of the water, which could otherwise cause superficial cracks due to shrinking in the plastic stage.

RR 32 must only be used in its original state without the addition of other materials.

Storage

Store in a dry place for no longer than 12 months.

Quality

RR 32 is subjected to careful and constant testing in our laboratories. The raw materials used are rigorously selected and checked.

Technical Data

Specific weight of the powder	approx. 1,550 kg/m³
Grading	< 3 mm
Yield	approx. 17 kg/m² with a thickness of 10 mm
Mixing water	17-19%
Fresh mortar density	approx. 2,000 kg/m³
Compressive strength after 7 days (EN1015-11)	≥ 23 N/mm²
Compressive strength after 28 days (EN1015-11)	≥ 30 N/mm²
Adhesion to concrete after 28 days (EN 1015-12)	≥ 1.4 N/mm²
Modulus of elasticity in compression (EN 13412 - method 2)	≥ 15,000 MPa
Capillary water absorption coefficient (EN 1015-18)	W1 (C≤ 0.4 kg/m²·min$^{0.5}$)
Water vapour permeability (EN 1015-19)	μ ≤ 20 (valore misurato)
Thermal conductivity coefficient (EN 1745)	λ = 1.1 W/m·K (tabulated value)
Reaction to fire (EN 13501-1)	Euroclass A1
Compliant with standard EN 998-1	GP-CSIV-W1
The performance listed below is obtained by mixing the product with 18% water in a controlled temperature and humidity environment (20±1°C and 60±5% RH)	

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