RESIMALTA 201

CASTABLE EPOXY MORTAR FOR FIXINGS AND GROUTINGS

Pre-packaged, bicomponent castable anti-shrinkage and solvent-free mortar based on fluid epoxy resins hardened with compounds made of cycle-aliphatic amine, mineral fillers and several additives.

Areas of use

- Castings under support plates of bridges, pillars, supports, basements, road joints;
- Fixings and injections under tracks for cranes, carts and precision machinery;
- Fast restoration of concrete floors and chipped joints;
- Grouting of steel rods, tension rods, railings, poles;
- Reconstruction or casting carrying of concrete prefab elements (frames, chipped supports);
- Plugging by clogging holes to pass pipes and tubes.

Features

Thanks to its fluid consistency, RESIMALTA 201 can be directly applied on the support without using a primer. Moreover it perfectly fills the casting volume and ensures excellent sealing.
It resists well to static and dynamic stress and its physical characteristics remain constant throughout the cast thickness thanks to a formulation which prevents sedimentation of inerts.
RESIMALTA 201 also ensures:

- waterproofing;
- fast hardening;
- excellent adhesion to concrete, metal, stone, wood;
- adhesion to damp basements;
- electric insulation;
- ease of use: it come packaged in 2 pre-weighed components to avoid any mistakes during weighing.

How to use

Preparation of the basement
The surface to be treated must be clean, healthy, dry and mortar grout and crumbly part-free. Best adhesion is achieved by roughening it by sandblasting.
Application on metals follows careful preparation of the support: remove oils, fats, varnishes and rust by abrading or sandblasting with white metal (SA2 – SA 3 degree).
Where it is necessary, prepare adequate formwork with hopper feeder and exhaust vent.
To prevent the mortar from adhering to the form, please use a detaching agent of a polyethylene foil.

Preparation of the product
Pour component B into component A and blend at slow speed for 3' – 5' using drill with helix/spiral to reduce air inlet as much as possible; during this operation, scrape also the bottom and the sides of the container.

Application
Cast the mortar in the volume to be filled.

Notes
Packages are weight pre-measured out: fully use all components A and B. If you wish to divide the package, products must be weighed by respecting the A+B ratio on the label and must not be weighed out based on the volume.
Three essential rules are valid for all bi-component systems: weigh well, carefully mix bottom and walls, observe times of use. It's also possible to add a 20% of quartz sand of 2-3 mm grain size; a higher amount decreases the flow capacity.

Technical characteristics

Compression strength (UNI EN 12190)	> 100 MPa
Bending strength (UNI EN 12190)	> 40 MPa
Elastic modulus (UNI EN 13412)	about 13000 MPa
Adhesion to dry concrete (ISO 4624)	Concrete failure
Adhesion to steel (UNI EN 12188)	> 10,0 MPa
Creep (EN 1544)	
	0,30 mm after 1 day 0,34 mm after 3 months
Pull-out (EN 1881)	
on Φ16 mm rod at break elongation a 75 kN	220 kN 0,24 mm
Electric resistivity ρ	10^{12} Ω
Glass transition temeperature	about 50 °C
Density of hardened mortar	2,05 kg/dm^3
Mixture ratio A + B	100 + 5

Values obtained after 7 days of curing at 25°C.
In the steel adhesion test, failure occurs in the adhesive.

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Use and hardening times

By pouring B component into A component, the hardening reaction starts: following mixture the time available is limited and it depends on the temperature.

Temperature	Pot-life	Hardening
10 °C	-	12 h
20 °C	70’	9 h
30 °C	35’	7 h

Full hardening is achieved after 7-days of curing at about 23 °C.

Consumption

Approx. 20 kg/m² for a layer 1 cm thick.

Packaging and storage

Available in 2 kg, 5 kg, 10 kg and 20 kg packages (A + B component).
If stored in its original and sealed package, the product remains unaltered for a year if kept in environments with a temperature between 10 and 30 °C.

Cleaning of tools and health precautions

Before handling the product always consult the safety data sheets.

To clean tools use solvents such as RESISOLV 111, RESISOLV 196 or alcohol.
Epoxy resins and hardening agents may cause irritations: please avoid any contact with the skin and especially with the eyes and ensure proper ventilation during use.
Wear gloves, protective suit, goggles or protective visor. People who have to work with epoxy resins for long periods are advised to use protective creams.
In case or contact with the skin, immediately clean with a cloth soaked in denatured alcohol and wash with water or neutral soap or handwash paste. Then use a nourishing cream.
In case of contact with eyes or mucosa, do not use alcohol.

Do not rinse with solvents.

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