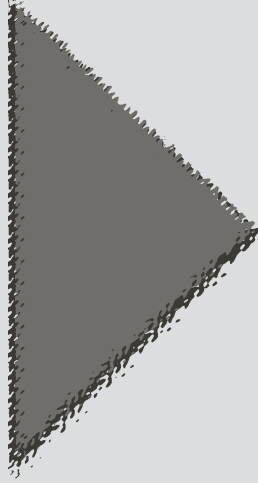


RESIN 97

Tec. Sh. FS 19

LINEA FRP SYSTEM

Technologies and materials
for consolidation



Castable epoxy mortar for fixings and groutings

Description

Pre-packaged, bicomponent (tricomponent with aggregate) 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. The Resin 97 can be added with 20% of aggregates. RESIN 97 comply with norm EN 1504.

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, RESIN 97 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.

RESIN 97 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. For the tricomponent solution add to the the mix the component C aggregates and blend thoroughly.

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. The Resin 97 can be added with 20% of aggregates of 2-3 mm grain size.

Technical characteristics

Compression strength EN12190	130 N/mm ²
Bending strength EN12190	53 N/mm ²
Elastic modulus	>13000 N/mm ²
Adhesion to concrete	Concrete failure
Adhesion to steel	>10 N/mm ²
Glass transition point EN 12614	ca. 48°C
Creep EN 1544	0,30 mm after 1 day 0,34 mm after 3 months
Pull out EN 1881 on rod ø16 mm break	220 kN
Elongation at 75 kN	0,24 mm
Electric resistivity ρ	10 ¹² Ω
Density of hardened mortar at 25°C	2,05 kg/dm ³

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
15°C	70'	9 h
25°C	30'	7 h
35°C	15'	5 h

Full hardening is achieved after 7 days.

Consumption

Approx. 2 kg/m² for a layer 1 mm thick.

Packaging and storage

RESIN 97 bicomponent : available in 10 kg and 21 kg packages (A + B components).

RESIN 97 tricomponent : available in 12,5 kg and 26 kg packages (A+B+C components).

If stored in its original and sealed package, the products remains unaltered for a year if kept in environments with a temperature between 10 and 30 °C.

Cleaning of tools and health precautions

To clean tools use solvents such as DILUENTE EP

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 of 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. Rinse immediately with running water and neutral soap for 10/15 minutes, then seek medical advice.

Do not rinse with solvents.



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