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FONDO RASANTE 82/1

SELF-LEVELLING EPOXY SYSTEM FOR FLOOR SMOOTHIN

Non coloured, self-levelling, highly fluid, solvent-free epoxy compound made of epoxy, stretching, dampening, antifoam and anti-sedimentary resins, and modified amino hardening agents which hardens thanks to a slightly exothermic poly-addition reaction.

Areas of use

- 1 – 2 mm low and medium thickness smoothing of horizontal surfaces to create layers of self-levelling and multi-layered floors like AUTOMIX, MULTIMIX e RINFOMIX;
- Fixing and grouting of rods, log bolts, bolts, etc.;

Features

FONDO RASANTE 82/1 has a self-levelling and workability power that enable it to even out the laying surface or floor foundation of an industrial floor making it homogenous.

Application is always completed with a quartz saturation sprinkle which serves two purposes: achieve a surface with an ideal and uniform grip and confer high resistance to wear and tear to the epoxy coating which will form the floor finishing.

- FONDO RASANTE 82/1 makes it possible to incorporate a fibreglass mesh which greatly improves the floor resilience;
- It ensures excellent adhesion to concrete, stone, bricks, metal and wood;
- It hardens with no shrinkage;
- Its mechanical features do not alter in time.

How to use

Preparation of the support

The surface to be treated must be clean, healthy, dry and crumbly part and cement grout-free: best adhesion is achieved by roughening it through smoothing with diamond wheels (00 grain) or buffing.

Carefully remove any trace of dust and dirt using an aspirator.

Application on metals requires careful preparation of the support: remove oils, fats, painting and rust through abrading or white metal sand-blasting (SA 2 – SA 3 degree).

Preparation of the product

Pour component B into component A and blend at slow speed for 3' – 5' using mechanical stirrer to reduce air inlet as much as possible; during this operation, carefully scrape also the sides and corners of the bucket.

Application

Apply with palette knife with an average consumption of 1 – 1.5 kg/m² per layer and sprinkle spheroidal quartz.

To do reinforced smoothing, lay a fiberglass mesh on the surface: place the sheets one close to another without overlapping. Then cast the product on the mesh and spread it with a palette knife.

Notes

Packages are pre-weighed: completely use component A and component B. If you wish to divide the package, products must be weighed observing the A+B ratio shown on the label and must not be dosed in volume.

In case of partial use of the package, do not introduce the mixer in component A and then in component B.

Three essential rules are valid for all bi-component systems: weigh well, carefully mix bottom and walls, observe times of use.

Application with temperatures lower than +10 °C and higher than +40 °C is not recommended.

Technical characteristics

Compression strength	(DIN 53454)	> 70 N/mm ²
Ultimate elongation		2,4%
Resistance to bending and traction	(ISO 178)	> 50 N/mm ²
Traction elasticity modulus	(DIN 604)	2800 N/mm ²
Resistance to tear on dry concrete	(*) (ISO 4624)	> 4.5 N/mm ²
Resistance to tear on damp concrete	(*) (ISO 4624)	> 2.0 N/mm ²
Viscosity		2500 cP
Specific weight at 25 °C		1.70 kg/dm ³
A + B mixture ratio		100 + 15

Values achieved after 7 day hardening at 25 °C

(*) adhesion values depend on the type of concrete. Cohesive break of substrate always takes place.

Use and hardening times

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

temperature	use (pot-life)	hardening
10°C	100'	12 h
20°C	45'	7 h
30°C	27'	5 h
35°C	20'	3 h

Full hardening after 7 days.

Time measured on a 150 g mass.

Consumption

In case of simple smoothing, consumption is of 1 – 1.2 kg/m² with 3 kg quartz sprinkle, usually 0.3 – 0.9.

To achieve reinforced smoothing with fibreglass mesh the product is applied in two layers: in the first one consumption is of 1.5 kg/m² with 3.5 – 4 kg quartz sprinkle; in the second case you need 1 – 1.2 kg/m² of product with 3 kg/m² quartz sprinkle.

Packages and storage

Available in 23 kg packages (A + B component).

Packages must be kept vertically and sealed: the product remains unaltered for at least a year if kept in a dry and sheltered place at a temperature between 10 and 30 °C.

Cleaning of tools and health precautions

Clean tools with water.

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.

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.