

EPOXY COAT

Two-components, solvent-free epoxy resin.

DESCRIPTION

EPOXY-COAT is a two-component solvent-free epoxy resin. EPOXY-COAT is formulated to be applied alone or mixed with quartz. Main applications are:

- Primer over concrete, marble, tiles, metal, wood.
- Primer for Microtopping
- Repair cracks, joints and holes

CHARACTERISTICS

- Easy to use
- High mechanical resistances
- Self-levelling and great workability.
- Excellent adhesion over concrete, stones, bricks, metal, wood.

APPLICATION

Surfaces preparation

The surface must be dry and its humidity not exceeding 5% (applied on concrete only after complete curing). The presence of water has a negative influence much as possible with air or better with a gas flame. Concrete substrates affected by rising damp from the grout, should be treated with BARRIERA CEM (vapour barrier)

The substrate must be sound, clean, free of dust, grease, cement grout contaminants and impurities.

The surface is treated differently depending on the condition of existing substrate by the following methods: sanding, milling, blasting, grinding or sandpapering. Before applying remove dust with compressed air and vacuum.

Preparation of material

EPOXY COAT is a two-component product supplied in premeasured packets. Add component B to component A. Mix carefully for 3-5 minutes and remove any residual material on the walls and in the corners of the bucket. To improve the workability is possible to add to the mixture 20% of quartz (size 0.1 - 0.5 mm).

- Apply with steel trowel.
- Once the application has been completed, spread the quartz (size 0.1 - 0.5 mm) over the epoxy resin. Cover the epoxy in an even layering of the quartz spreading the material until the surface appears dry.
- Wait until completely hardened, 12 to 24 hours, depending on temperature. Vacuum the quartz.
- If necessary, apply a second coat

TECHNICAL DATA

After mixing the two components, immediately starts the catalysis reaction that leads to hardening of the product. The time available for using EPOXY COAT is shortened with the increasing temperature.

Temperature	Time to use the product	hardening
+ 10°C	100 min	12 hr
+ 15°C	45 min	9 hr
+ 25°C	30 min.	6 hr
+ 35°C	20 min	3 hr
Mixing ratio		A+B = 100+15

Mechanical resistances (after 7 days at 23 °C)

BONDING STRENGTH (N/mm ²)	> 4,5
COMPRESSIVE STRENGTH (N/mm ²)	> 90
FLEXURAL STRENGTH (N/mm ²)	> 60
MODULUS OF ELASTICITY (N/mm ²)	2.800
ELONGATION	About 2,4%

COVERAGE

The coverage could be different depending on the application method and the existing surface. Using fiberglass net will increase the consumption.

APPLICATION WITHOUT FIBERGLASS

	EPOXY COAT (A+B)	QUARZ (0,1-0,5 mm)	
		20% mixed with resin	quartz spreading
1° coat	1,50 kg	0,300 kg	4 (2*) kg
2° coat	0,75 kg	0,150 kg	2 (1,5*) kg
Tot. consumption/m ²	2,25 kg	5 kg (2 Mixture + 2 Spreading)	

APPLICATION WITH FIBERGLASS

	EPOXY COAT (A+B)	QUARZ (0,1-0,5 mm)	
		20% mixed with resin	quartz spreading
1° coat	1,80 kg	0,360 kg	4 (2*) kg
2° coat	0,90 kg	0,180 kg	2 (1,5*) kg
Tot. consumption/m ²	2,70 kg	5 kg (2 Mixture + 2 Spreading)	

CONSOLIDATING PRIMER

	EPOXY COAT (A+B)	QUARZ (0,1-0,5 mm)	
		20% mixed with resin	quartz spreading
1 coat	1,30 kg	0,260 kg	4 (2*) kg
Tot. consumption/m ²	1,30 kg	5 kg (1 Mixture + 1 Spreading)	

(*) Amount of quarz collected and reused in the second application.

PACKAGE AND STORAGE

Available package A+B=23Kg.

Shelf life in original packaging unopened 12 months, in a closed and protected area to a temperature between 10°C and 30 °C.

SAFETY

Epoxy resins and hardeners are chemicals. All operators should take adequate precautions. Particular attention should always be paid to the following:

- Personnel should never eat, drink or smoke in areas where resin or hardener is stored.
- Operators should wash their hands thoroughly before meals.
- Protective clothing such as overalls, gloves, arm guards and glasses should be worn at all times whilst handling the products.
- Exposed areas of skin should be protected with a special barrier cream at the beginning of each shift.
- The use of disposable paper towels for cleaning is strongly recommended. For more information consult the Safety Data Sheet.

IMPORTANT:

All information contained herein is based on the best practical and laboratory. It is for the customer to determine that the product is suitable for the application they want. The manufacturer assumes no responsibility for the results of incorrect applications. You should always test on a small area before application. This card replaces the previous. The data can be changed at any time. Also note that the products are intended for professional use; Ideal Work provides training and that of their regular customers who request it. Anyone using these products without being enabled does so at their own risk.

IDENTIFICATION ISO9002 - IST 0455EPOXY-COAT EDIZ. 01 of 01.05.2013 Revision 00