



NEOPRIMER EP 110SF

GENERAL PURPOSE TRANSPARENT EPOXY PRIMER COATING

DEFINITION:

Epoxy resin based, two component, solvent free, low viscosity transparent floor coating material. Excellent penetration to surfaces, and fills holes and pores. As it does not contain solvents, odour - free and therefore can be used indoors and outdoors. After curing, it becomes very resistant to abrasion and breakage.

AREAS OF APPLICATION:

- As a primer layer before applying epoxy or polyurethane top coatings on concrete, cementitious or epoxy mortars, on floors exposed to medium and heavy loads,
- As a concrete primer to wet the concrete surface and to obtain a good holding bridge before epoxy mortar, epoxy self-leveling screed, epoxy laminate or epoxy/polyurethane top coat coatings,
- Level connection, as a binding in the preparation of repair and correction mortar,
- As a binder in the preparation of epoxy mortar with a thickness of 5 – 8 mm,
- It is used on the chamfer surface in the repair process of large cracks by mixing with silica sand or different fillings.

ADVANTAGES:

- Low viscosity,
- High wetting ability,
- The series is cured.

TECHNICAL SPECIFICATIONS

Physical Properties:

QUALITY (23°C, 50% RH)	VALUE	STANDARD & METHOD
Appearance	A Com.: Liquid B Com.: Transparent, Liquid	-
Viscosity	A Com.: 650 ± 50 B Com.: 400 ± 50	EN ISO 2555
Density (gr/cm ³)	A Com.: 1,10 ± 0,05 B Com.: 0,98 ± 0,05 A+B Mix.: 1,07 ± 0,05	EN ISO 2811-1 ASTM D 1475
Solid by Volume (% wt)	A+B Mix.: 100	EN ISO 3251



Note: This product is for professional users. The information in this publication is based on our professional knowledge and experience. This information does not eliminate the obligation of users of our products to test their suitability for their place of use. As the implementation and use of our products is beyond our control, none of the recommendations are within our warranty. Users should evaluate our products on their own terms and are solely responsible. The technical data sheets of all our products are updated at regular intervals. Users are responsible for obtaining the latest version.

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Mechanical Properties:

QUALITY (23°C, 50% RH)	VALUE	STANDARD & METHOD
Compressive Strength (N/mm ²)	70	EN 196
Adhesion Strength (N/mm ²)	>2	EN 1542 ASTM D 4541
Flexural Strength (N/mm ²)	28	EN 196
Surface Hardness (Shore D)	80	EN ISO 868 ASTM D 2240

Technical Properties After Application And Curing:

QUALITY (23°C, 50% RH)	VALUE	STANDARD & METHOD
Mixing ratio	67:33	By weight
Pot Life (min)	15	+30 °C 100 g (A+B) DIN 16945
	30	+20 °C 100 g (A+B) DIN 16945
	60	+10 °C 100 g (A+B) DIN 16945
Touch Dry (hour)	2 - 4	23°C'de - 50 % RH TS 4317
Waiting Time Between Floors (hour)	4 - 8	+30 °C TS 4317
	12	+20 °C TS 4317
	24	+10 °C TS 4317
Full Cure (day)	7	23°C, 50 % RH TS 4317



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APPLICATION INFORMATION

Surface Information: The application surface must be solid. The surface must have a compressive strength of at least 25 N/mm² and a pull-off test result of at least 1.5 N/mm². All loose, volatile particles must be free from oil and paint residues, cement grout. Extensive fractures and faults should be repaired beforehand. Cement crust and glossy screed on the concrete surface should be cleaned with tools such as sandblasting, notching machine, diamond drum wiping machine, driven grinder, and the surface should be roughened and wiped. The entire surface should be cleaned of dust with an industrial vacuum cleaner. Concrete surfaces in contact with the soil to be coated must be insulated against water and water vapor barrier beforehand.

Environmental Conditions:

- The relative humidity of the air should be at most 80%, the application temperature (environment and surface) should be between +5°C and +35°C.
- There should be no rain in open areas during the application and/or 12 – 24 hours after the application.
- The ground temperature should be 3°C above the current dew drop temperature. (Ask for the Ambient temperature-Ambient Humidity-Dew Temperature table from our company.)

Preparation of the Mixture: It is a two-component product and should be prepared in the specified mixture ratio, considering the pot life, as much as the amount to be consumed. In order to obtain a homogeneous mixture, the product temperature should not be less than 15°C. Component A should be mixed quickly with a mechanical mixer, and the hardener (component B) should be added by paying attention to the mixing ratio. A and B components should be mixed with a mechanical mixer for at least 3 minutes until homogeneous.

Application to the Surface: The mixture, which is made ready for application, is applied with a roller or airless spray so that the surface is saturated and the pores are closed. It is 12 hours (20°C) as a new layer application time on top of the layer. It is very important that the second coat is applied within the above-mentioned new coat application time. It reaches a full mechanical and chemical resistance in approximately 7 days (23 Co, 50% RH).

Material Consumption:

As an impregnation primer:

0,10 – 0,20 kg/m² (Depending on the concrete surface, it is recommended to thin it 5-10% with Epoxy Thinner for a better impregnation)

As a general purpose primer:

0,30 – 0,50 kg/m² depending on the system solutions, the usage and consumption of the primer may vary.

As a leveling mortar:

NEOPRIMER EP 110SF.....0,50 kg/m²

0,1 - 0,3 mm quartz sand 1,00 kg/m²

6,0-7,0 mm epoxy mortar:

NEOPRIMER EP 110SF.....1,50 kg/m²

0,1 - 0,6 mm quartz sand.....4,80 kg/m²

0,6 - 2,0 mm quartz sand.....7,20 kg /m²

Cleaning of Tools: With water or cellulosic thinner.

PACKING INFORMATION

18 kg set of NEOPRIMER EP 110SF; It consists of a net of 12 kg of NEOPRIMER EP 110SF component A in a bucket and a net of 6 kg of NEOPRIMER EP 110SF B component in a gallon.

STORAGE INFORMATION

The material should be stored in a cool and dry place. The life of the material is 1 year for components A and B when stored properly and in its unopened original packaging.

HEALTH/SAFETY INFORMATION

During the application, work clothes, protective gloves, glasses and masks in accordance with the occupational and worker health rules should be used. Due to the irritating effects of the uncured product, the components should not come into contact with the skin and eyes. In case of contact, wash with plenty of water and soap. If swallowed, seek medical advice immediately. For detailed information, ask your dealer for the Safety Data Sheet (MSDS). Keep out of reach of children. Comply with the Safety Data Sheet (SDS) prepared in accordance with the EU directives regarding the product.



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