



NEOFLOOR EP 512FLR

SELF-LEVELLING COLOR EPOXY FLOOR COATING MATERIAL

DEFINITION:

It is an epoxy resin-based, two-component, solvent-free, low-viscosity, self-leveling, multi-layered or thinlayered, very bright and wear-resistant colored floor coating material.

AREAS OF APPLICATION:

- On concrete, cement or epoxy mortars, on all industrial floors,
- In areas where visibility is important such as stores, show-rooms, laboratories,
- In areas with heavy pedestrian traffic such as schools, entertainment centers, hotels,
- It is used in many places where mechanical, chemical and abrasion resistance is required, on floors subject to medium and heavy loads, by itself or by mixing with quartz sand.

ADVANTAGES:

- Solvent-free, low-viscosity flexible structure,
- Decorative appearance,
- Pressure and high abrasion resistance,
- Easy to clean and resistance to chemicals.

TECHNICAL SPECIFICATIONS

Physical Properties:

QUALITY (23°C, 50% RH)	VALUE	STANDARD & METHOD
Appearance	A Com.: Ral Colours , Liquid B Com.: Transparent , Liquid	-
Viscosity	A+B mix.: 1800 ± 100	EN ISO 2555
Density (gr/cm3)	A+B mix.: 1,60 ± 0,05	EN ISO 2811-1
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
Taber Abrasion Resistance (mg) (CS 10/1000/1000)	<45	ISO 5470-1
Compressive Strength (N/mm ²)	>50	EN ISO 196
Flexural Strength (N/mm ²)	>20	EN ISO 196
Surface Hardness (Shore D)	>80	EN ISO 868 ASTM D2240
Adhesion Strength (N/mm ²)	>3	EN 1542 ASTM D 4541

* Mechanical properties are for a mixture of 1 part NEOFLOOR EP 512FLR and 1 part quartz sand.

Technical Properties After Application And Curing:

QUALITY (23°C, 50% RH)	VALUE	STANDARD & METHOD
Mixing ratio	80:20	-
Application Thickness (mm)	1,50 – 3,00	-
Pot Life (min)	25	100 g (A+B)
Touch Dry (hour)	8-12	23°C'de - 50% RH
Full Cure (day)	7	



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APPLICATION INFORMATION:

Surface Information: The application surface must be clean and solid. All loose, volatile particles must be free from oil and paint residues, cement grout. Extensive fractures and faults should be repaired beforehand. Surface preparation rules must be followed during the priming process.

Durability: It mechanically withstands normal to medium-weight mechanical action. Thermally, it withstands +80°C at humid temperature (without chemical and mechanical effects at the same time) and +120°C at dry temperature.

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. For higher compressive strength, 30% of the quartz sand with a grain size of 0,1-0,3 mm should be added and the mixing process should be continued until homogeneity is achieved.

Application to the Surface: The mixture, which is made ready for application, is applied to the primed and leveled surface with a notched trowel for self-leveling coating. Air bubbles should be removed with a spiked roller of the fresh coating completely spread on the surface. It reaches a full mechanical and chemical resistance in approximately 7 days.

Cleaning of Tools: With water or cellulosic thinner.

Material Consumption:

(Example SYSTEM)

As an impregnation primer:

NEOPRIMER EP 100WB.....0,10 – 0,20 Kg/m²

(Depending on the concrete surface, it is recommended to thin it 20-30% with water for a better impregnation.)

Primer Coat:

NEOPRIMER EP 110SF.....0,25 – 0,50 kg/m²

Alternative Primer Coat:

NEOPRIMER EP 100WB.....0,25 – 0,50 kg/m²

(Depending on the concrete surface, 5-10% thinning with water is recommended.)

Carrier Coat:

0,3 - 0,7 mm quartz sand 1,50 – 3,00 kg/m²

Scratch Coat:

NEOFLOOR EP 500BC 0,75 – 1,25 kg/m²

Top Coat:

NEOFLOOR EP 512FLR.....1,50 – 2,00 kg/m²

(0,1 - 0,3 mm quartz sand 0,70 – 0,80 kg/m²)

PACKING INFORMATION

A 25 kg set of NEOFLOOR EP 512FLR consists of 20 kg net NEOFLOOR EP 512FLR A component in a bucket and 5 kg NEOFLOOR EP 512FLR B component B net in a gallon.

STORAGE AND SHELF LIFE:

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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