



NEOFLOOR EP 500BC

MULTI-PURPOSE COLOR EPOXY COATING COMPONENT

DEFINITION:

It is an epoxy resin-based, two-component, solvent-free, low-viscosity, colored floor coating material used as the intermediate layer of paint systems designed as multi-layer or thin coating.

AREAS OF APPLICATION:

- On concrete, cement or epoxy mortars, on all industrial floors,
- In warehouses, hangars and repair maintenance assembly units where forklift, loader and heavy vehicle traffic are experienced,
- In multi-layer flooring systems applied in factories and workshops and production and packaging areas,
- As wall covering for increasing mechanical and chemical resistance and hygienic environment,
- It is used in many places where mechanical strength and abrasion resistance are required on floors subject to medium and heavy loads.

ADVANTAGES:

- Solvent free,
- High wetting ability suitable for multilayer surface coating systems,
- High pressure and abrasion resistance,
- That can be applied easily, spreads well, gives a smooth, and has a long overcoat time.

TECHNICAL SPECIFICATIONS

Physical Properties:

QUALITY (23°C, 50% RH)	VALUE	STANDARD & METHOD
Appearance	A Com.: Colour , Liquid B Com.: Transparent , Liquid	-
Colours	Ral Colours	-
Density (gr/cm3)	A+B mix.: 1,45 ± 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)	<55	ISO 5470-1
Compressive Strength (N/mm ²)	>80	EN ISO 196
Flexural Strength (N/mm ²)	>38	EN ISO 196
Adhesion Strength (N/mm ²)	>3	EN 1542 ASTM D 4541
Surface Hardness (Shore D)	>70	EN ISO 868 ASTM D 2240

Technical Properties After Application And Curing:

QUALITY (23°C, 50% RH)	VALUE	STANDARD & METHOD
Mixing ratio	80:20	-
Pot Life (min)	25	100 gr (A+B)
Waiting Time Between Layers (hours)	12	23°C'de - 50% RH
Open to Light Traffic (Day)	1	
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 at the specified mixture ratio as much as the amount to be consumed, taking into account the pot life. 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. Care should be taken to consume the prepared mixture within the pot life period.

Application to the Surface: The mixture, which is prepared for application, is preferably applied by airless spraying, at the consumption in the paint system, or by controlling it with a wet film comb to obtain the desired dry film thickness. It should be noted that there will be 5-10% difference between the wet film and dry film thickness. Air bubbles should be removed with a spiked roller of the fresh coating completely spread on the surface. (Especially in applications over 1 kg/m² or 700 microns, this issue should be considered.) Roller is used for thin coating. Minimum 12 hours (20°C) and maximum 24 hours as new coat application time on top of the coat. 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. In airless spraying applications, the pressure

should be 250-300 bar and the nozzle diameter should be 0.027- 0.031 inch.

Cleaning of Tools: With water or cellulosic thinner.

Material Consumption(Example SYSTEM):

Floor coating with 2,5 – 3,0 mm texture finish, suitable for use in garages, warehouses and parking lots

Primer Coat:

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

(Consumption may also vary depending on the concrete surface..)

Carrier Coat:

0,3 – 0,7 mm QUARTZ SAND 1,00 – 1,50 kg/m²

Scratch Coat:

NEOFLOOR EP 500BC 0,60 – 0,80 kg/m²

TOP COAT:

NEOFLOOR 590TXT 0,50 – 0,60 kg/m²

PACKING INFORMATION

A 20 kg set of NEOFLOOR EP 500BC; It consists of net 16 kg NEOFLOOR EP 500BC A component in a metal bucket and 4 kg NEOFLOOR EP 500BC B component 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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