



NEOFLOOR EP 512SF

SOLVENT FREE, EPOXY BASED, TWO COMPONENT FLOOR COATING MATERIAL

DEFINITION:

NEOFLOOR EP 512SF is an epoxy-based, solvent-free, twocomponent coating material especially developed to protect concrete and steel.

AREAS OF APPLICATION:

- Indoor-outdoor, vertical and horizontal applications, Metal or concrete tanks,
- As a chemical resistant gas and vapor barrier coating on the walls,
- In oil and fuel tanks,
- In power stations, sugar factories, hangars and liquid storage areas,
- In drinking water tanks,
- In oil refineries and paper mills,
- It is used in food, pharmaceutical, paint, paper, battery and fertilizer industries, Printing houses, hotel kitchens and laundries, Hospital laboratories, dining halls, wet areas and hygienic environments.

ADVANTAGES:

- It has a glossy surface. It has antibacterial properties. It creates a surface structure that does not allow the formation of microbes.
- It provides a hygienic environment as it is easy to clean.
- High mechanical strength.
- It has elasticity to absorb movements on metal surfaces.
- Their chemical resistance is higher than standard epoxy coatings.
- It is easily applied by brush, roller or spray method. It is waterproof.
- Does not contain solvent.
- Safe to use in drinking water tanks

TECHNICAL SPECIFICATIONS

Physical Properties:

QUALITY (23 °C, 50 % RH)	VALUE	STANDARD & METHOD
Appearance	A Com.: Ral Colours , Liquid B Com.: Transparent , Liquid	-
Viscosity	A mix.: 2500 ± 300 B mix.: 450 ± 100	EN ISO 2555
Density (gr/cm3)	A+B mix.: 1,70 ± 0,05	EN ISO 2811-1
Solid by Volume (%)	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.

Sultan Orhan Mh. 1159/2 Sk.
No:2/A Gebze - Kocaeli
Phone: +90 262 320 07 65
www.neopolkimya.com.tr
info@neopolkimya.com.tr

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Mechanical Properties:

QUALITY (23°C, 50% RH)	VALUE	STANDARD & METHOD
Taber Abrasion Resistance (mg) (CS 10/1000/1000)	<30	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 D 2240
Adhesion Strength (N/mm ²)	>3	EN 1542 ASTM D 4541

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)
Touch Dry (hour)	8 - 12	23°C - 50% RH
Full Cure (day)	7	



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APPLICATION INFORMATION:

Surface Preparation: Oil, wax, grease, water repellents, loose parts and dust that will weaken the adhesion strengths on the surface should be removed by cleaning with a floor grinder machine. The new concrete must be at least 28 days old. The surface should be primed before application. Concrete surfaces to be applied must have at least the following standards:

Hardness: R28 = 15 Mpa

Temperature: 10 - 30 °C

Surface humidity: < 4 %

Application:

The mixture, which is ready for application, is applied in both directions with a short pile roller. During the application;

- The relative humidity of the air should be at most 80%, the application temperature (environment and surface) should be between +10°C and +30°C.

- It should not be rainy 24 hours before, during and 24 hours after the application in open areas.

- The ground temperature should be 3°C above the current dew (dew fall) temperature. (Ambient temperature - Ambient Humidity - Dew Temperature table from our company.)

- The applied surfaces should be protected for at least 24 hours. The material reaches the mechanical values given in the technical data sheet in approximately 7 days.

Cleaning After Application: Equipment used during the application should be cleaned with a suitable solvent at once after the application.

Preparation of the Mixture:

Component A and component B come in separate packages with pre-mixed ratios. Component B is exactly poured into component A and mixed. Mixing should be done with a mixer at 300 rpm. 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 add 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.

Consumption:

Total consumption is 0,40 - 0,80 kg/m².

PACKING INFORMATION

A set of 25 kg NEOFLOOR EP 512SF;

Component A: 20 kg metal bucket

Component B: 5 kg metal bucket

STORAGE AND SHELF LIFE:

It should be stored in its unopened original package, in a cool and dry environment, protected from frost. Appropriate storage temperature should be between +5°C and +25°C. Shelf life is 12 months from the date of production under suitable storage conditions.

HEALTH/SAFETY INFORMATION

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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