

-  RESIN FLOORS
-  PAVIMENTI IN RESINA
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-  POSADZKI ŻYWICZNE - DEKORACYJNE I PRZEMYSŁOWE



NORPHEN 200 FUEL

Fuel resistant epoxy coating

Description

NORPHEN 200 FUEL is a two-component product used for the realization of areas coatings. The product consists of:

- component A: mixture of liquid epoxy prepolymers, pigments, additives and special fillers;
- component B: copolymerization amine.

When fully cured, the material exhibits excellent chemical resistance and a generally good reactivity at low temperatures (up to +5°C).

The product is available in various colours.

Where to Use

NORPHEN 200 FUEL is used as a 200 m to 500 m coating of aromatic hydrocarbons tanks.

Application

Substrate Preparation:

- carefully check the substrate to make sure it is a suitable and structurally sound base;
- the kind of treatment to be performed shall be chosen depending on the actual state of the area:
 - hot water pressure washing;
 - washing by means of acids;
 - sanding;
 - diamond grinding;
 - scarification;
 - peening.

In this way dust, dirt, grease, oil, old adhesive or paint, laitance, rust, mildew and other extraneous materials will be removed.

- depressions and inconsistencies of the floor scheduled to receive the coating must be compensated with MALTA RAPIDA, for thicknesses greater than 3 mm, or NORPHEN FONDO SL appropriately loaded with quartz sands of various particle size, for thickness below 3 mm.

Specific Preparations:

As a protective coating on dry areas in contact with fuel:

- apply a coat of adhesion promoting NORPHEN FONDO primer;
- after 2÷4 hours, proceed by laying NORPHEN 200 FUEL with a short haired roller in two coats spaced 24 hours apart from each other.

Minimum Consumption/Dosage: 0.35 kg/m².

Without subfloor vapour barrier:

- apply a W3 shaving layer (according to the operating instructions given in the Technical Data Sheet), reinforced with a glass mesh, **to replace any previously mentioned shaving treatment**;
- 7 days after application, proceed with the application of NORPHEN 200 FUEL with a short haired roller in two coats spaced 24 hours apart from each other.

Minimum Consumption/Dosage: 0.35 kg/m².

As a finish for multilayered floors:

- on the previously sanded and vacuumed quartz sand area, apply NORPHEN 200 FUEL with a steel plastering trowel.


Minimum Consumption/Dosage: 0.7÷0.9 kg/sqm.

Product Preparation

Pour NORPHEN 200 FUEL component B into component A and mix thoroughly with a drill and impeller, apply as soon as possible taking into account that the mixture pot life is very short (15 ± 5 minutes at 20°C).

In a hot summer weather try not to prepare more than 4÷6 kg product at a time.



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Warnings and Useful Advices

- Adding solvents to NORPHEN 200 FUEL can reduce its chemical resistance and finish brightness.
- Apply any further layer by the following day, after a maximum of 48 hours.
- Mix NORPHEN 200 FUEL parts A and B according to the ratio indicated on the package.
- The reaction speed of the system is influenced by temperature: cold temperatures decrease speed until it stops completely, whilst hot temperatures increase it making product application more difficult.
- Consequently it is good practice to keep the products containers cool in summer and warm in winter, before applying the product.
- Read the Material Safety Data Sheet (MSDS).

Specifications

Bulk Density, UNI 8310	g/cm ³	1,20 ± 0,05
Pot-Life, UNI EN ISO 9514	min	15 ± 5
Superficial drying time, UNI 8904	hours	4 ± 1
Curing time	days	> 7
Application temperature	°C	+5 ÷ +35
Ultimate tensile strength (film), ISO 527	MPa	98 ± 15
Ultimate flexural strength (film), ISO 178	MPa	68 ± 10
UV resistance and condensate, ASTM D 4329 (168 hours exposure)	Δ E	>25
	Δ gloss	- 80
Adhesion to concrete (pull-off test), ASTM D 4541	MPa	> 3,5
Hardness (Shore D), ASTM D 2240	---	> 75
Ratio A : B	2 : 1	

Note: test methods are in accordance with the standard referred to in the table.

Chemical resistances, EN ISO 2812-1 (method 2)

30% hydrochloric acid in water	4
10% sulfuric acid in water	4
20% phosphoric acid in water	4
30% acetic acid in water	1
15% ammonia in water	5
soda (sodium hydroxide) 30% in water	5
3.5% hydrogen peroxide (12 volumes)	5-4
mixture of acetic acid (1%) and hydrogen peroxide (0.5%) in water	4
denatured ethyl alcohol	4
technical Acetone	4

(1 = product disintegration, 5 = no alteration; for the full range see [Appendix A](#))

Packaging and storage

NORPHEN 200 FUEL is available in 12 kg packs.
Store in a covered place, at room temperature between +8 and +30°C.

Legal notice

Tips on how to use our products match the current state of our knowledge and do not imply any assumption of responsibility or/and liability for the final result of works. Therefore, customers are not exempt from the responsibility to verify the suitability of products for use and final aims through preliminary tests. The website www.nordresine.com contains the latest revision of this datasheet.

Edition

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