

-  RESIN FLOORS
-  PAVIMENTI IN RESINA
-  SOLS EN RÉSINE
-  POSADZKI ŻYWICZNE - DEKORACYJNE I PRZEMYSŁOWE



NORPHEN 200 HCR SELF-EXTINGUISHING

Floor and wall epoxy coating

Description

NORPHEN 200 HCR AUTOESTINGUENTE is a liquid compound based on specific resins used for the realization of floor and wall coatings. The product consists of:

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

Once 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 its standard colours: ROSSO OSSIDO (oxide red) and GRIGIO (grey) (RAL 7040).

It is a self-extinguishing product according EN 13501-1 Standard Class B1_{fl}.

Where to Use

NORPHEN 200 HCR AUTOESTINGUENTE is used as a film coating of approx. 200 microns thickness on boiler rooms floors and walls (including also other kind of places/rooms) requiring oils and fuel impermeable anti-dust coatings.

Application

Substrate Preparation:

- carefully check the substrate to make sure it is a suitable and structurally sound base;
- assess, given the surface conditions, whether the product can fulfil its intended role, especially as regards good adherence;
- ensure the installation surface is completely dry;
- remove dust, dirt, grease, oil, old adhesives or paint, efflorescence, rust, mildew and other extraneous materials which may impede or prevent the attachment of the product.

Pay particular attention to existing rising damp from the bottom: if NORPHEN 200 HCR AUTOESTINGUENTE is applied in such conditions, it may flake and eventually quickly disbond from the surface.

Product Preparation

Pour NORPHEN 200 HCR AUTOESTINGUENTE component B into component A and mix thoroughly using a drill with impeller, for at least 20-30 seconds, until a perfect mixture is achieved.

Product Application

After mixing, immediately begin applying the product taking into account that the mixture pot-life (maximum useful time for the application) is very short (15 ± 5 minutes at 20°C).

Coverage

The average consumption/dosage (using a roller) is approx. 150÷250 g/m² per coat.

Warnings and Special Instructions

- The system's reaction speed is affected by temperature: cold decreases it until it stops completely. During the hot period of the year, keep the product containers in a cool place. During the warmer period, however, keep containers cool before mixing the two components, to slow down hardening time.
- Specific solvents may be added to NORPHEN 200 HCR AUTOESTINGUENTE to make the resin harden more slowly and penetrate deeper into the surface: that however can lead to a reduction in both chemical resistance and final product brightness. The specific solvent to use in this case is NORPHEN SOLVENTE.
- A possible second coat can be applied the next day, after a maximum of 48 hours: in fact beyond 72 hours from laying the first coat, the surface shall be thoroughly sanded to get an optimal adherence;
- Mix NORPHEN 200 HCR AUTOESTINGUENTE component A and B in the exact proportions reported on the pack; if needed, and in order to use only part of the pack, the two ingredients must be carefully weighed to obtain a correct hardening of the product.
- Please carefully read the Material Safety Data Sheet (MSDS).



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Specifications

Bulk Density, UNI 8310	g/cm ³	1,20 ± 0,05
Pot Life (at 20°C), UNI EN ISO 9514	minutes	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
Mixing ratio A : B		2.22 : 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 HCR AUTOESTINGUENTE is available in packs of 3.22 kg.
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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