

NORPHEN 200 FONDO



CE marking:

→ EN 13813 • Designation: SR-B2,0



TECHNICAL FEATURES



SLOW CURING

FIELD OF APPLICATION



INTERIORS



INT. WALLS



INT. FLOORS

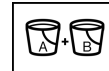


GARAGE



IND. SHEDS

APPLICATIONS



2 PART



ROLLER



BRUSH

Description

NORPHEN 200 FONDO is a bi-component epoxy product with very high white coverage used for the realization of the base coat in combination with finishes with poor coverage colors (see COLOR LIST at the end of the North Resins PRICE LIST).

NORPHEN 200 FONDO consists of:

- component A: mixture of liquid epoxy pre-polymers and special fillers with high coverage;
- Component B: copolymerization amines.

NORPHEN 200 FONDO gives rise to a coating with remarkable chemical/mechanical characteristics: hardness, flexibility, resistance to abrasion and good general chemical resistance.

NORPHEN 200 FONDO is specially designed to make the color and absorption of the surface uniform where it is applied.

CE Marking

► EN 13813

NORPHEN 200 FONDO complies with the principles envisaged in the EN 13813 standard ("Screed material and floor screeds - Screed materials: Properties and requirements") with the following designation:

→ SR – B2,0

- Synthetic resin (SR) based screed.
- Bond strength: $3,1 \pm 0,4$ MPa (B2,0).

Colour

NORPHEN 200 FONDO is available in WHITE.

Field of application

NORPHEN 200 FONDO is used as a base coat under the following coatings:

- NORPHEN 200.
- NORPHEN 200 HCR.
- NORDPUR EXTERIOR (in all variants).

In particular NORPHEN 200 FONDO it is essential when applying a finish:

- with low hiding power on a dark coloured or very differently coloured surface;
- on a surface with uneven absorption.

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Advantages

- NORPHEN 200 FONDO has a very high covering power even applied in a single coat.
- NORPHEN 200 FONDO allows to eliminate in a single step problems of inhomogeneity of absorption of the surfaces.

General preparation of the laying surface

- Installation surfaces must be structurally sound, clean, free of inconsistent materials and dry.
- Depending on the state of the surface, the type of treatment to be carried out must be chosen:
 - diamond grinding;
 - acid washing;
 - sanding.

This will remove dust, dirt, grease, oil, old stickers or paints, efflorescence, rust, mold and other foreign materials.

- New floors must be seasoned for at least 28 days and have a moisture content of no more than 3.5% measured using the carbide method according to UNI 10329, DIN 18560-4 or ASTM D4944.
- If the substrate humidity is > 3.5%, depending on the humidity level, prepare the surface with:
 - SOLID;
 - W3 IMPERMEABILIZZANTE;
 - Q-PRIMER + Q-RASANTE.

NOTE: NORPHEN 200 FONDO is poorly permeable to water vapor.

To prevent moisture from rising from the substrate and to avoid the formation of bubbles under the coating, it is advisable to place a vapor barrier under the concrete.

Product preparation

- Stir Part A with professional low-speed mixer.
 - Shake Part B.
 - Pour NORPHEN 200 FONDO Part B into Part A and mix thoroughly with a professional mixer until you get a homogeneous mixture.
 - Any form of manual mixing (trowel, whisks, etc.) is to be excluded.
 - In case of partial use of the package, dose components A and B of NORPHEN 200 FONDO in the precise ratios indicated on the label.
- Always use a precision scale for dosing.
- The resulting mixture is ready for use.

Product application

- The application can be carried out with a brush or with a short pile roller.
- Apply NORPHEN 200 FONDO in one coat (consumption approx. 0.25 kg/m²) crossing the rolls/brushstrokes until a homogeneous coverage is obtained.
- The next day, you can apply the chosen top coat NORPHEN 200 FONDO (at temperatures between +20°C and +25°C).

The number of finishing coats to be applied depends on the color and the product (follow the instructions on the last pages of the Nord Resine general PRICE LIST under the COLOR LIST heading).

Consumption

type of application	minimum consumption	maximum consumption	u.m.	notes
On all surfaces	0,25	0,27	kg/m ²	-

Tool cleaning

- Fresh product: cleaning with ACETONE, alcohol, epoxy thinner or nitro thinner.
- Hardened product: mechanical removal, soaking for at least 24 hours in ACETONE or nitro thinner or use of

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paint strippers (FLUID STRIPPER or GEL STRIPPER) or heat gun.

Useful tips for laying

- Wait until the next day (and in any case at least 48 hours), before applying any topcoat on NORPHEN 200 FONDO.
- At low temperatures the product thickens and this makes application difficult.
- At low temperatures, the product curing rate decreases. This affects the development of mechanical and chemical properties (e.g. soft, non-glossy surface).
- During the cold season, bring the product to a heated place before applying and, once applied, ensure the room temperature is always above +13°C.
- In the presence of high temperatures, keep the product containers cool and prepare small portions of the A+B mixture to prevent the product from exceeding its pot-life.
- Mix components A and B in the precise ratios provided by the manufacturer (see product label).
- Read the Safety Data Sheet carefully.

Technical Data

► PRODUCT IDENTIFICATION DATA		value
Density (part A) at 23 °C, 50%RH, EN ISO 1675	kg/L	1,81 ± 0,02
Density (part B) at 23 °C, 50%RH, EN ISO 1675	kg/L	1,005 ± 0,003
Density (mix A+B) at 23 °C, 50 %RH, EN ISO 1675	kg/L	1,68 ± 0,02
Appearance (Part A)	-	White viscous liquid
Appearance (Part B)	-	Straw yellow liquid
► APPLICATION DATA AND FINAL PERFORMANCE		value
Mixing ratio by weight (A:B)	-	5 : 1
Pot-life (thermometric), +23°C to +40°C, EN ISO 9514	min	70 ± 9
Application temperatures range	°C	from +13 to +35
Minimum waiting time for applying a topcoat (at +23°C, 50% RH)	hours	24
Full curing time (at +23°C, 50% RH)	days	7
Shore D hardness, A+B, maturation 72 hours at +23 °C, 50%RH, EN ISO 868	-	(66 ± 2)°
► TECHNICAL DATA IN ACCORDANCE WITH EN 13813		value
Bond strength, EN 13892-8	MPa	3,1 ± 0,4 (Cohesive failure in the substrate)

Product storage

- 24 months in the closed original packaging, in a dry and covered place away from direct sunlight, at a temperature between +5°C and +30°C.

Packaging

VARIANT	PACKAGE	ADR	PACKAGE / PALLET	COMPONENTS	NOTES
WHITE	kit (A+B) - 6 kg	P*	-	A = 5 kg (steel bucket) B = 1 kg (can)	
WHITE	(A+B) - 24 kg	SI'	-	A = 15 kg (steel bucket) B = 3 kg (jerry can)	

ADR legend:

NO = NON-DANGEROUS goods

P* = DANGEROUS goods packed in limited quantities (packed as per ADR Chapter 3.4)

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Si = DANGEROUS Goods

LEGAL NOTES

Any advice concerning the methods of use of our products reflects the current state of knowledge and does not imply any guarantee and/or responsibility as to the outcome of the application. Consequently, the customer must verify the product's suitability for the intended use and purposes by testing the product in advance. The Internet website www.nordresine.com contains the latest revision of this technical sheet: in case of any doubts, verify the date of revision (where missing, use the date of issue) by consulting the "PRODUCTS" section.

EDITION

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