

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



NORDPUR ESTERNI

Outdoor solvent based coating

Product Description

NORDPUR ESTERNI is a two component product consisting of:

- Component A: mixture of functionalized emulsified prepolymers, additives and fillers,
- Component B: prepolyisocyanate.

The two mixed components give rise to a flexible and hard material. When applied on various surfaces produces a smooth coating resistant to weathering and abrasion.

The product is available in standard colours white, red and grey (and other on request) that do not undergo any substantial change with time.

Where to Use

NORDPUR ESTERNI is used as a protective surface for any outdoor areas, especially as epoxy or other kind of systems finish.

Consequently, it can be used as concrete, metal, ceramic tile and natural stone coating, always together with specific products for substrate treatment.

The product is ideally suited for stadium flights of steps.

Due to its characteristics, NORDPUR ESTERNI is the ideal finish for all types and even indoor coating resins.

Application

Substrate preparation and product application:

- *On cement areas:*
 - be sure the installation surface is completely dry and clean: new screeds must have been cured for more than one month;
 - apply an undercoat of NORPHEN FONDO IGRO to promote adhesion;
 - apply NORDPUR ESTERNI.
- *On metal surfaces:*
 - sandblast existing rusted steel to grade SA 2.5;
 - apply an undercoat of NORPHEN FONDO SL to promote adhesion;
 - apply NORDPUR ESTERNI.
- *Tiled surfaces:*
 - roughen the area with a diamond wheel;
 - shave with NORPHEN FONDO SL reinforced with 100% by weight of quartz sand 0.1 to 0.3;
 - directly finish with a NORDPUR ESTERNI coat if the colour is a high coverage colour, or firstly apply a coat of NORPHEN 200 and then proceed with finishing.
- *On resin surfaces:*
 - to finish epoxy, polyester, vinyl ester, methacrylate and resin coatings, apply a product coat after 12 hours.

Product Preparation

Add component B into component A and thoroughly mix with a professional mixer.

Method of application of the product

Apply with a short hair roller in a single coat.

When needed, before applying a second coat of the product, thoroughly abrade the surface with a 180 grit abrasive mesh.

Coverage: 0.15 kg/m²

Warnings and Special Instructions

- After application, protect from rain during the first 12 hours.
- Do not use indoors without ventilation.



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- Keep component B tightly closed during preliminary operations, because it is sensitive to atmospheric moisture.
- Read the Material Safety Data Sheet (MSDS)

Specifications

Bulk Density, UNI 8310	g/cm ³	1,07 ± 0,05
Surface drying time, UNI 8904	hours	8 ± 2
Minimum temperature of film formation	°C	> +5
Impermeability to water, UNI 8202/21	kPa	≥ 500
Permeability to water vapor, DIN 52615	μ	< 4 · 10 ⁴
UV resistance and condensation, (Exposure 168 hours) ASTM D 4329	ΔE Δgloss	~ 2 - 20
Adhesion to Concrete (pull-off test) ASTM D 4541	Mpa	> 3.5
Abrasion resistance, UNI 8298/9	mg	< 90
Buchholz hardness	---	> 35
Pot-life, ISO 9514 (300 ml of A+B)	min	40
Ratio A: B		2 : 1

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

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

30% hydrochloric acid in water	3
10% sulfuric acid in water	3
20% phosphoric acid in water	4
30% acetic acid in water	1
15% ammonia in water	5
soda (sodium hydroxide) 30% in water	3-4
3.5% hydrogen peroxide (12 volumes)	5
mixture of acetic acid (1%) and hydrogen peroxide (0.5%) in water	5
denatured ethyl alcohol	4
Cyclohexane	5
Solvesso 100	5
Ethyl acetate	5
Acetone Technical	5

(1 = breakdown product, 5 = no change; for full scale see [Appendix A](#))

Packaging and Storage

Packaging	9.0 kg (A + B)
Storage	12 months in original packaging, in a covered, dry area at temperatures between +10°C and +30°C. Frost sensitive.

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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