



NORTIG

Waterproofing liquid membrane

CE marking:

- EN 1504-2 (C) - Principles: PI-MC-IR



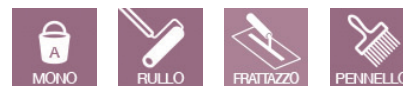
TECHNICAL SPECIFICATIONS



FIELD OF APPLICATION



APPLICATIONS



Description

NORTIG is a water-based system consisting of an aqueous dispersion of polymers, modifiers, additives and fillers. Once cured, the film of the applied product features excellent impermeability and resistance to atmospheric agents coupled with high and lasting flexibility, which make it an excellent waterproofing agent for horizontal and/or vertical surfaces, especially when located in temperate climates.

CE marking

► EN 1504-2

NORTIG fulfils the principles defined in the EN 1504-9 standard ("Products and systems for the protection and repair of concrete structures: definitions, requirements, quality control and evaluation of conformity. General principles for use of products and systems") and to the requirements of the EN 1504-2 standard ("Protection systems for concrete surfaces") for the following class:

→ PI-MC-IR

- For Principle 1 (PI) - Protection against penetration risks: 1.3 Coating (C), ZA.1d.
- For Principle 2 (MC) - Humidity control: 2.2 Coating (C), ZA.1e.
- For Principle 8 (IR) - Resistance increase through the limitation of the humidity content: 8.2 Coating (C), ZA.1e.

Colour

NORTIG is available in four standard colours: BIANCO, GRIGIO, ROSSO COPPO, VERDE.
NORTIG is also available in other colours on request.

Field of application

NORTIG is used to create:

- Waterproofing of flat roofs (both walk-over and non) with or without the addition of reinforcement fabric.
- Waterproofing of terraces, balconies, sunroofs and valley gutters, preferably reinforced.
- Waterproofing through direct bonding of the tile with the addition of a reinforcement.

Advantages

- NORTIG is extremely resistant to atmospheric agents.
- NORTIG does not yellow following exposure to sunlight.
- At the recommended thicknesses, NORTIG resists water stagnation (even frozen water).
- NORTIG has good adhesion on concrete.
- NORTIG has a very short overcoating time.

General preparation of the laying support

- Clean the surface thoroughly and eliminate any loose parts.
- Repair holes and depressions with GROVE PRIMER and GROVE MASSETTO (or GROVE 30 vertically).
- Verify and, where necessary, create the correct slopes for the water to run off.

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Specific preparation of the laying support

In certain special situations, the laying surface must be treated with a primer before applying NORTIG.

- ▶ Old bitumen membranes
 - Apply one coat of FONDO IGRO SL primer.
 - When fresh, sprinkle a thin layer of 0.1–0.6 mm QUARTZ sand (or washed and dust-free fine sand).
- ▶ Ceramic tiles
 - Smooth the surface with a diamond grinding wheel.
 - If the surface is still closed, skim coat the surface with slurry prepared using 1 part by weight of GROVE PRIMER ECO and 3 parts by weight of GROVE MASSETTO.
- ▶ Concrete or sand and cement screeds
 - Verify that there is no superficial dust.
 - If necessary, apply one coat of PRIMER PLS (see Technical Sheet).
 - Wait for the primer to cure then proceed with the application.

Preparing the product

- The product is ready-to-use.
- Before the application, uniform the product using a low-speed professional mixer.

Application of the product

NORTIG can be applied on its own or in combination with a reinforcement.

- ▶ Application without reinforcement

Apply multiple coats with a roller or float until the final expected consumption.
- ▶ Application with reinforcement
 - Apply an abundant coat of NORTIG on the surface.
 - Immediately afterwards, apply the layer of NYCON 100 reinforcement (or NYCON F for overlaps and particularly difficult points) above the wet product.
 - Impregnate the reinforcement completely using a roller or trowel to prevent air bubbles from getting trapped inside.
 - Apply a top coat as soon as possible.

- ▶ Finishing of the waterproofing membrane made with NORTIG

The product does not need to be finished.

However, for aesthetic reasons it can be finished as desired with:

- Coloured FLAKES (150–200 g/m²)
- A coat of EASY-LAST COAT coloured top coat (a non-yellowing polyurethane product, see Technical Sheet).

Consumption

type of application	minimum consumption	maximum consumption	UoM	dilution
Horizontally, with or without reinforcement	2,2	3,0	kg/m ²	-
Vertically	1,3	1,4	kg/m ²	-

Cleaning of tools

- Wet product: clean with water (including a power wash).
- Hardened product: remove mechanically, soak for at least 12 hours in ACETONE or nitro thinner, or use paint strippers (FLUID STRIPPER or GEL STRIPPER).

Useful application tips

- Do not apply on surfaces that are expected to frost within the next 24 hours after application.
- The application must be suspended if rain or snow is expected, in case of fog and when the temperature drops below +8°C.
- Do not apply on supports with residual humidity above 4.5% (carbide method).

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- On the dry and cured product, to apply a successive coat of NORTIG, use FONDO C60 (60–70 g/m², see Technical Sheet) as an adhesion primer.
- The product is not harmful to human health; nonetheless, read the Safety Sheet before use.

Technical data

► PRODUCT IDENTIFICATION DATA	UoM	value
Appearance	-	Homogeneous coloured paste
Density at 23°C, EN ISO 2811-1	kg/L	1,41 ± 0,05
Brookfield apparent dynamic viscosity (23°C / 50% R.H. ASTM#5 spindle, 20 rpm), EN ISO 2555	mPa•s	15000 ± 2000
► APPLICATION DATA AND FINAL PERFORMANCES	UoM	Value
Maximum humidity of the support (carbide method), UNI 10329	-	4,5%
Application temperature	°C	from +8 to +35
Surface drying time (23°C, 50% R.H.), EN ISO 9117-3	min	45 ± 5
Minimum interval between two successive coats (23°C, 50% R.H.)	hours	6
Walk-over time (at +20°C)	hours	8
Impermeability to water, testing time 24 hours, EN 1928	kPa	> 300
Rupture load (traction) at +23°C with NYCON 100 reinforcement, EN ISO 527-3	N/5 cm	> 400
Elongation at break (traction) at +23°C with NYCON 100 reinforcement, EN ISO 527-3	-	> 50%
Cold flexibility, EN 495-5	°C	< 0
Cold flexibility [after exposure to UV radiation in the presence of humidity (2470 hours) according to EOTA TR010, without reinforcement], EN 495-5	°C	< 0
Peel strength at 180° (180° peeling) on concrete, EN 28510-2	N	> 50
Peel strength at 180° (180° peeling) on ceramic, EN 28510-2	N	> 50
► TECHNICAL DATA IN CONFORMITY TO EN 1504-2	UoM	value
Permeability to CO ₂ , equivalent air layer thickness SD(CO ₂), with NYCON F reinforcement, thickness 1.00 mm, EN 1062-6	m	460 ± 25
Permeability to water vapour, equivalent air layer thickness SD, with NYCON F reinforcement, thickness 0.89 mm, EN ISO 7783	m	4.4 ± 0.4 (Class I)
Permeability to water vapour (μ), dry cup method, with NYCON F reinforcement, thickness 0.89 mm, DIN 5261	-	5000 ± 500
Capillary absorption and permeability to water, with NYCON F reinforcement, EN 1062-3	kg/(m ² •√h)	0,008 ± 0,0004
Direct tensile adhesion, with NYCON F reinforcement, EN 1542	MPa	2,7 ± 0,5
Classification as per EN 1504-2	-	PI-MC-IR

insertion test for remarks and notes after technical data

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Storage of the product

- 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.
- Protect the product against frost.

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Packages

VARIANT	PACKAGE	ADR	PACKAGES PER PALLET	COMPONENTS
Grey	fustino da 5 kg	NO	120 fustini	
Grey	fustino da 10 kg	NO	60 fustini	
Grey	fustino da 20 kg	NO	33 fustini	
VERDE OSSIDO	fustino da 5 kg	NO	120 fustini	
VERDE OSSIDO	fustino da 10 kg	NO	60 fustini	
VERDE OSSIDO	fustino da 20 kg	NO	33 fustini	

Legenda ADR:
NO = merce NON PERICOLOSA

LEGAL NOTES

Advice on how to use our products corresponds to the current state of our knowledge and does not involve the assumption of any guarantee and / or responsibility for the final result of the work. They do not refore exempt the customer from the responsibility of verifying the suitability of the products for the use and the prefixed purposes through preventive tests. The website www.nordresine.com contains the latest revision of this datasheet.

EDITION

Issue date: 05.04.1998

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