



## NORTIG 15 FIBRATO

Fibre-reinforced water-based mono-component water-based liquid waterproofing membrane, for interiors and exteriors



CE marking:

- EN 1504-2 (C) - Principles: PI-MC-IR
- EN 14891 - Class: DMO2P

### TECHNICAL SPECIFICATIONS



### FIELD OF APPLICATION



### APPLICATIONS



### Description

NORTIG 15 FIBRATO is a pasty liquid product, reinforced with a high fibre content that, when applied on balconies, terraces and flat roofs, creates a coloured membrane resistant to direct sunlight and pouring rain, suitable for protecting surfaces exposed to the elements and stagnant water without the addition of a reinforcement. NORTIG 15 FIBRATO is also suitable for use in cold climates (down to  $-20^{\circ}\text{C}$ ).

### CE marking

#### ► EN 1504-2

NORTIG 15 FIBRATO 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.

#### ► EN 14891

NORTIG 15 FIBRATO satisfies the requirements stated in the EN 14891 standard "Liquid-applied waterproofing products for use beneath ceramic tiling bonded with adhesives". Designation:

→ DMO2P

- Waterproof product in dispersion applied in the liquid state (CM).
- With enhanced crack-bridging capacity at very low temperatures ( $-20^{\circ}\text{C}$ ), (O2).
- Resistant to contact with chlorinated water (e.g. for use in swimming pools), (P).

### Colour

The product is available in the following standard colours: GRIGIO, BIANCO, ROSSO COPPO and VERDE OSSIDO.

### Field of application

NORTIG 15 FIBRATO is suitable for use as:

- Making exposed waterproof coatings on flat roofs, terraces and balconies.
- Making exposed waterproof coatings on old bitumen membranes, line gutters and valley gutters, cornices and chimneys.
- Waterproof foundation walls, walls and facades.
- Waterproof bathrooms, showers and changing rooms.

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The presence of fibres in the formula of NORTIG 15 FIBRATO allows for bonding the tile directly, limitedly to small-size surfaces.

For large-size surfaces, use BETONGUAINA/BETONGUAINA.S (see Technical Sheets).

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## Advantages

- NORTIG 15 FIBRATO dries very rapidly.
- NORTIG 15 FIBRATO is quick and easy to use.
- NORTIG 15 FIBRATO has the consistency of a very soft paste which makes it easy to apply.

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## General preparation of the laying support

### ► Preliminary trials

- Verify that the residual humidity of the laying surface does not exceed 4–5% (measured according to the carbide method as per the UNI 10329 or ASTM D4944 standard)

### ► Treatment of the corners and joints between paired structures (wall-floor, wall-wall, etc.)

To guarantee the adhesion of the membrane in the special jointing points, it is necessary to make:

→ filllets on the corners between the floor and wall, using BETONSEAL MS 2.0 with the adhesion promoters suited to the materials to be sealed.

To create precision corner seals with BETONSEAL MS 2.0, the specific corner box is available (model L20);

→ floor joints using BETONSEAL MS 2.0 with the adhesion promoters suited to the materials to be sealed;

→ couplings with flashing, gutters, through pipes, railing and sub-thresholds using BETONSEAL MS 2.0 with the adhesion promoters suited to the materials to be sealed.

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## Specific preparation of the laying support

### ► Sand/cement or concrete screeds

- Remove the crumbling parts and the dust.
- In case of excessive sprinkling, consolidate the surface with PRIMER PLS or SW SOLID diluted 4 times in water.
- Check the slopes and, if necessary, modify them using GROVE PRIMER ECO + GROVE MASSETTO.
- On the wall, repair any defects using RASOMIX or RASANTE 1200 (see Technical Sheets).
- Fill any cracks with PLAST EPO or eliminate them through stitching with fixed bars.

### ► Existing bitumen membrane

- Remove any accumulated dust and soil from the stagnation zones.
- Torch weld any detaching parts or blisters.
- Seal the open cracks with NORTIG 15 reinforced with NYCON F.
- Proceed with the direct laying of NORTIG 15 FIBRATO.

### ► Existing tiles

→ In interiors:

- Verify that the tiles adhere properly to the support.
- Verify that there is no rising damp.
- Using PLAST EPO, fill any cracks or eliminate them through stitching with fixed bars.
- Eliminate the tile's enamel using a diamond grinding wheel.
- Alternatively, the surface can be degreased with NORDECAL FORTE GEL and then rinsed thoroughly.
- Let the surface dry.
- Apply one coat of RICRETE 1C.

→ In exteriors:

- Verify that the tiles adhere properly to the support.
- Verify that there is no rising damp.
- Using PLAST EPO, fill any cracks or eliminate them through stitching with fixed bars.
- Eliminate the tile's enamel using a diamond grinding wheel.

### ► Plasterboard or aquapanel

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- Thoroughly remove dust from the support.
- Proceed with the first coat of NORTIG 15 FIBRATO directly on the clean support.

## Preparing the product

- NORTIG 15 FIBRATO is ready-to-use.
- After opening the bucket, briefly mix the product with a bricklayer's trowel or plastering trowel.

## Application of the product

### ► Application

→ Waterproofing in normal conditions

- Apply two criss-cross coats of NORTIG 15 FIBRATO using a block brush (with 7–8 cm bristles) or a steel or plastic trowel.
- With special care, a rubber squeegee with a long handle can also be used.

→ Waterproofing of bathrooms, showers, saunas and damp environments (before laying ceramic coverings)

- Apply the first coat of NORTIG 15 FIBRATO to a thickness of roughly 0.4–0.5 mm (0.6–0.7 kg/m<sup>2</sup>).
- Wait roughly 1 hour at 23°C and with 50% R.H. before applying the second coat.
- Apply the second coat to the same thickness (0.6–0.7 kg/m<sup>2</sup>).
- Wait roughly another 3 hours and verify the product's curing.
- Lay the ceramic tiles.

### ► Tile bonding and grouting

- Apply the ceramic coatings only after minimum 4 hours at 23°C and with 50% R.H. on a dry support. Bear in mind that drying is slowed down by low temperatures and high relative humidity.
- On the floor, you can install the covering (tiles, vitreous mosaic or natural stone) when the product is walk-over.

→ Normal bonding:

- Use MONOTACK® FLEX (refer to the Technical Sheet for the application details and the curing times).
- Grout the tiles with COLORFILL FLEX or EPOSEAL W by observing the curing times stated in the product's Technical Sheet.

→ Rapid bonding:

- Use MONOTACK® FLEXORAPID (refer to the Technical Sheet for the application details and the curing times).
- The tiles can be grouted with COLORFILL FLEX or EPOSEAL W roughly 3 hours after bonding them.

## Consumption

type of application	minimum consumption	maximum consumption	UoM	dilution
Indoor or outdoor horizontal surfaces (flat roofs, terraces, balconies, etc.) – 2 coats	1,8	2,0	kg/m <sup>2</sup>	-
Indoor or outdoor (above-ground) vertical surfaces – 2 coats	1,4	1,6	kg/m <sup>2</sup>	-
Bathrooms or other humid environments – 2 coats	1,2	1,4	kg/m <sup>2</sup>	-

## Cleaning of tools

- Wet product: clean with water (including a power wash).
- Hardened product: remove mechanically, use special paint strippers (GEL STRIPPER or FLUID STRIPPER) or a thermal gun.

## Useful application tips

- Pay special attention to the humidity content of the screed/substrate, especially if it is already tiled.

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Humidity above 4–5% can cause blisters to form between the support and the membrane.

- NORTIG 15 FIBRATO can be applied at an ambient (and support) temperature close to +1°C, avoiding application if the temperature is expected to fall below this value.
- In winter it is best applied on sunny days in the morning until the early afternoon.

## Technical data

► PRODUCT IDENTIFICATION DATA	UoM	value
Density at 23°C, EN ISO 2811-1	kg/L	1,33 ± 0,03
Dry residue (at 105°C, 1 hour), ISO 3251	-	(70 ± 1) %

► APPLICATION DATA AND FINAL PERFORMANCES	UoM	value
Maximum humidity of the support (carbide method), UNI 10329	-	4 %
Application temperature	°C	from +1 to +35
Operating temperature	°C	from -20 to +80

► TECHNICAL DATA IN CONFORMITY TO EN 1504-2	UoM	value
Permeability to carbon dioxide, equivalent air layer thickness SD(CO <sub>2</sub> ), specimen thickness 0.76 mm, EN 1062-6	m	583 ± 20
Permeability to water vapour, equivalent air layer thickness SD, specimen thickness 0.96 mm, EN ISO 7783-1	m	4.6 ± 0.2 (class I)
Capillary absorption and permeability to water, EN 1062-3	kg/(m <sup>2</sup> ·√h)	0,040 ± 0,005
Direct tensile adhesion, EN 1542	MPa	1,8 ± 0,3

► TECHNICAL DATA IN CONFORMITY TO EN 14891	UoM	value
Impermeability to water under pressure (1.5 bar for 7 days positive thrust), EN 14891 – A.7	-	no water seepage (waterproof)
Initial tensile adhesion with C2 adhesive, EN 14891 – A.6.2	MPa	0,9 ± 0,1
Durability based on tensile adhesion after contact with water with C2 adhesive, EN 14891 – A.6.3	MPa	0,7 ± 0,1
Durability based on tensile adhesion after contact with lime water with C2 adhesive, EN 14891 – A.6.9	MPa	1,2 ± 0,2
Durability based on tensile adhesion after freeze-thaw cycles, EN 14891 – A.6.6	MPa	0,6 ± 0,1
Durability based on tensile adhesion after immersion in chlorinated water, EN 14891 – A.6.8	MPa	1,0 ± 0,1
Durability based on tensile adhesion after thermal ageing with C2 adhesive, EN 14891 – A.6.5	MPa	1,6 ± 0,2
Crack-bridging capacity in standard conditions (+23°C), EN 14891 – A.8.2 (≥ 0.75 mm)	mm	2,6 ± 0,1
Crack-bridging capacity at very low temperatures (-20°C), EN 14891 – A.8.3 (≥ 0.75 mm)	mm	1,8 ± 0,3

## 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.

# NORTIG 15 FIBRATO

## 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](http://www.nordresine.com) contains the latest revision of this datasheet.

## EDITION

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