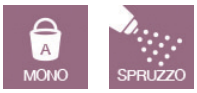
# NORDRY 100 BASE

Concentrated hydrophobicising liquid compound for treatment in tanks and for dehumidifying injections

TECHNICAL SPECIFICATIONS


FIELD OF APPLICATION


APPLICATIONS




**Description**

NORDRY 100 BASE is a concentrated product formulated with water-repellent compounds with functional modification.
Suitably diluted in water, NORDRY 100 BASE is able to hydrophobicise porous materials, in particular:
• Cement-based mixes (preferably fresh – green concrete)
• Cotto objects.
NORDRY 100 BASE (in diluted form) is suitable for injection in damp walls with low and medium porosity as a hydrophobicising treatment.
The hydrophobicising effect is created thanks to the dual action of NORDRY 100 BASE:
• Saturation of the micro-pores of the treated material.
• Lowering of the surface tension on the walls of the macro-pores (capillary pores).

**Field of application**

NORDRY 100 BASE is used as a hydrophobicising solution.
NORDRY 100 BASE can be used by means of:
• Injection, for treating walls made of cotto, stone and cotto, and natural carbonate stone.
• Immersion (in tank), to hydrophobicise objects made of cement (shingles and tiles) and cotto (objects in general).

**Advantages**

• NORDRY 100 BASE allows for completing dehumidification interventions at a low cost.
• NORDRY 100 BASE is easy to use.
• NORDRY 100 BASE does not develop odours or fumes.

**Specific preparation of the laying support**

► By injection
• Make a series of holes of suitable size in relation to the chosen injection (by gravity, with low pressure 0.5–1.0 bar, average pressure 5–7 bar) using a drill or electric core drill, between 15 and 25 cm above the floor.
• Characteristics of the holes:
→ Hole centre-to-centre distance: 15–20 cm, depending on the material's porosity (the more it is porous, the farther apart the holes can be placed);
→ Depth of the holes: 2/3 the thickness of the wall to be treated;
→ Inclination of the holes: 15° from top to bottom, from the outside towards the inside of the wall.
→ Repetition of the series of holes: the ideal system involves creating two horizontal series of holes on two rows, spaced out 15 cm from one another.

► By immersion
Remove any dust and other loose parts from the structure to be treated.

**Preparing the product**

► By injection
Dilute 1 part by volume of NORDRY 100 BASE with 10 parts of water.

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# NORDRY 100 BASE

► By immersion
Dilute 1 part by volume of NORDRY 100 BASE with 10–150 parts of water, depending on the type of material.

**Application of the product**
► Gravity injection
• It is done with the aid of containers connected to a diffusion system inserted in the hole and exploits the force of gravity to favour the product's penetration into the wall.
• The product penetrates easily if the material to be treated is damp.
If necessary, inject water before NORDRY 100 BASE to dampen the wall.

► Pressure injection
• This method is to be preferred with respect to the previous one as it reduces the intervention times and guarantees improved and more homogeneous penetration of the treatment.
• The circuit is made by connecting to a diaphragm pump specific self-locking injectors inserted in the wall.
• The operating pressure can be set to between 0.5 and 7 bar depending on the type of material to be impregnated:
→ material with wide pores (macro-porous): low injection pressure;
→ support with very small pores (micro-pores): high injection pressure.

► Immersion of the objects
To optimise the use of this product, it is advisable to vary not only the solution's concentration, but also the immersion time from 15 to 60 seconds.

**Consumption**
The quantity of product to be used depends on the porosity of the wall and on the degree of saturation (humidity). In general, a good estimate of the consumption in ordinary conditions can be obtained by applying the following formula:
Litres (min) of NORDRY 100 BASE diluted * = 0.15 • Wall thickness (in cm) • length of the wall to be treated (in metres)
Litres (MAX) of NORDRY 100 BASE diluted * = 0.18 • Wall thickness (in cm) • length of the wall to be treated (in metres)
* with 2 horizontal series of holes situated 25 and 40 cm from the floor.

| type of application | minimum consumption | maximum consumption | UoM | dilution |
|---|---|---|---|---|
| To treat a wall 30 cm thick and 4.5 m long (with 2 horizontal series of holes situated 25 and 40 cm from the floor) | 1,84 | 2,20 | L | Dilute 1 part by volume of pure product with 10 parts by volume of water |

**Cleaning of tools**
• Wet product: clean with water (including a power wash).
• Hardened product: remove mechanically.

**Useful application tips**
• If the support has high capillarity or actual holes, a first filling injection must be carried out with NORDCEM (cement with osmotic action, see Technical Sheet).
Treat the surface with NORDRY 100 BASE only once NORDCEM has dried fully.
• On walls with joints between the bricks made of crumbling mortar, the perforations should end inside the brick so as to preserve a high injection pressure.
• Preventively verify any unforeseeable incompatibility in one or more small zones.
• The product is alkaline and thus corrosive on the following materials: zinc, lead, tin, aluminium and glass.
Avoid using containers and/or tools made of these materials and protect parts of the objects against contact, as they can be accidentally corroded.
• The product is dangerous, adopt suitable precautions and use the PPE specified in the Safety Sheet under point 8.
• Read the Safety Sheet carefully before using the product.

# NORDRY 100 BASE

**Technical data**

| ► PRODUCT IDENTIFICATION DATA | UoM | value |
|---|---|---|
| Density at 23°C, EN ISO 2811-1 | kg/L | 1,30 ± 0,04 |
| Brookfield apparent dynamic viscosity (23°C / 50% R.H. ASTM#2 spindle, 150 rpm), EN ISO 2555 | mPa•s | 30 ± 10 |
| pH (potentiometric method) at 23°C, ISO 4316 | - | 13 ± 1 |
| Dry residue (at 125°C, 1 hour), ISO 3251 | - | (44 ± 3)% |
| Active substance content | - | (24 ± 3)% |
| Colour | - | Transparent colourless |
| Appearance | - | Oily liquid |
| Odour | - | Characteristic |
| Solubility in water, product in water at 20°C | kg/L | Complete |

**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 +4°C and +30°C.
• Protect the product against humidity.

**Packages**

| VARIANT | PACKAGE | ADR | PACKAGES PER PALLET | COMPONENTS |
|---|---|---|---|---|
| - | 12 flaconi da 1 L | P* | 30 scatole | |
| - | 18 l tank | YES | 24 scatole | |

Legenda ADR:
P* = merce PERICOLOSA imballata in quantità limitata (confezionata come da Cap. 3.4 ADR)
SI' = merce 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**

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