

NORDCEM PRIMER

High-penetration liquid primer with osmotic effect for structures to be treated with NORDCEM



TECHNICAL SPECIFICATIONS



FIELD OF APPLICATION



APPLICATIONS



Description

NORDCEM PRIMER is a liquid primer with an osmotic action to be applied prior to treatment with NORDCEM. NORDCEM PRIMER acts together with NORDCEM by enhancing its waterproofing effect.

NORDCEM PRIMER is a hydro-alcoholic dispersion of monomeric silanes with low molecular weight that:

- They deeply penetrate the treated material.
- Leaves the support's permeability to water vapour unaltered (breathable treatment).

NORDCEM PRIMER guarantees excellent performances also in highly alkaline and humid conditions, typically associated with cement works cast a few days ago.

From a chemical point of view, NORDCEM PRIMER is a "stabilised active precursor", namely a substance already active in the liquid phase that, when in contact with the support's material, reacts chemically with it producing a waterproofing effect.

In this form, it can be stored in the warehouse even for long periods without its properties deteriorating.

Colour

The product in the liquid phase is colourless and slightly opalescent. Once applied and left to cure, it becomes totally colourless.

Field of application

NORDCEM PRIMER is suitable for creating chemical barriers on ordinary building materials.

In particular, its use is recommended:

- In the presence of capillary cracks in the material.
- In counter-thrust waterproofing treatments combined with a successive treatment with NORDCEM (to make the support material deeply and stably hydrophobic).
- As a preliminary treatment for the laying support in positive thrust waterproofing treatments with resin (for example, swimming pools or tanks), to prevent bloating of the coating, which could cause condensate or counterthrust water infiltrations.
- To create chemical barriers against capillary rising damp in walls made of cotto, natural stone mixed with cotto or stone.
- To create chemical barriers on concrete walls, with the exception of walls made of cement blocks, for which we recommend using NORDRY 200 I-ECO (see Technical Sheet).
- For the treatment of saline efflorescence and as a water-repellent agent on both dry and humid absorbent materials (concrete, screeds, plasters, cotto, absorbent natural silica stone, etc.).
- To make a damp surface dry before applying the successive coatings (e.g. cement or lime-based skim coating, a waterproofing coating, a protective resin, etc.).

NORDCEM PRIMER, it is also effective with humid conditions, creating a chemical barrier against capillary rising damp (hydrophobising effect).

Advantages

- NORDCEM PRIMER is ready-to-use.
- NORDCEM PRIMER allows for intervening on both damp and dry surfaces.
- NORDCEM PRIMER is easy and quick to apply.

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- NORDCEM PRIMER has a very durable effect over time.
- NORDCEM PRIMER does not cause superficial colour alterations and does not leave a “wet effect”.
- NORDCEM PRIMER preserves the breathability to water vapour of the treated surfaces.
- NORDCEM PRIMER is resistant to UV radiation and weathering.
- NORDCEM PRIMER does not generate chemical reactions that are detrimental to stone (formation of by-products).

General preparation of the laying support

- There are no particular problems linked to the humidity of the application surface.

The effectiveness of the treatment with NORDCEM PRIMER is guaranteed on both dry and humid surfaces, also deeply.

The efficacy is nonetheless higher if the humidity of the support measured with the carbide method (UNI 10329 or ASTM D4944) exceeds 4%.

- Verify that the surface to be treated is free from oil, grease, paint or any other protective coating that could hamper the product's penetration.
- Remove soluble salts, detached parts and cement laitance by brushing or wet sandblasting.

Preparing the product

- NORDCEM PRIMER is ready-to-use.
- Shake the product in the container lightly before drawing it.

Application of the product

► Manual application on the surface

- Pour the product into a clean service container.
- Proceed with the application using a brush, roller or low-pressure sprayer.

► Application by injection (chemical barrier)

To create chemical barriers, use the conventional low-pressure devices available on the market.

These systems are made up of a pump, flexible hoses and injectors.

The injectors must be inserted in the structure to be treated (through the pilot holes) and must be easily removable for their reuse (if necessary, refer to the Nord Resine Technical Service).

► Coating over of the product

- For maximum adhesion, NORDCEM must not be applied on the surface more than 24 hours after the treatment with NORDCEM PRIMER.
- Proceed with the same method also for all other types of coatings.

Consumption

type of application	minimum consumption	maximum consumption	UoM	dilution
Manual application on the surface, on damp concrete (for 1 cm penetration)	0,12	0,13	L/m ²	-
Manual application on the surface, on dry concrete (for 1 cm penetration)	0,14	0,15	L/m ²	-

Cleaning of tools

- Wet product: clean with water (including a power wash).
- Hardened product: remove mechanically.

Useful application tips

- Apply at temperatures between +5 and +40°C.
- Before applying NORDCEM PRIMER, inspect the surface and close all gaps larger than 0.3 mm.

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- For perfect adhesion of the coating, do not wait more than 24 hours before coating the parts treated with NORDCEM PRIMER.
- The product is flammable.
- Read the Safety Sheet carefully before using the product.

Technical data

► PRODUCT IDENTIFICATION DATA	UoM	value
Density at 23°C, EN ISO 2811-1	kg/L	0,83 ± 0,05
Brookfield apparent dynamic viscosity (23°C / 50% R.H. ASTM#1 spindle, 150 rpm), EN ISO 2555	mPa*s	10 ± 1
Appearance	-	Liquid
Odour	-	Of alcohol
Colour	-	Transparent/opalescent
► APPLICATION DATA AND FINAL PERFORMANCES	UoM	Value
Application temperature	°C	from +5 to +40
Full curing	days	> 28

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 +25°C.

Packages

VARIANT	PACKAGE	ADR	PACKAGES PER PALLET	COMPONENTS
-	12 flaconi da 1 L	P*	-	
-	4 taniche da 5 L	P*	-	

Legenda ADR:

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

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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