

NORDCEM

Waterproofing osmotic cement



Description

NORDCEM is a special inorganic cement with osmotic properties. It can penetrate as a solution into substrate microcrevices, chemically react to fix calcium hydroxide and make it precipitate irreversibly into insoluble microcrystals, blocking all pores (*internal chemical waterproofing*).

At the same time, NORDCEM forms on the surface a waterproof, pore-free layer capable to resist water negative pressure (*external waterproofing*).

The inorganic, chemical nature of the NORDCEM layer allows the substrate to transpire and the waterproofing effect to go on for a very long time.

Range of use

NORDCEM is used for:

- waterproofing of structures subject to continuous (positive or negative) water pressure, such as basements, foundations, embedded walls, lift shafts, hoists, swimming pools, tanks, canals, tunnels;
- waterproofing of tanks destined to store drinking water in compliance with Presidential Decree 236/88, after two washings with low pressure water prior to use.

Advantages

NORDCEM:

- is a non-toxic compound;
- does not alter, from a chemical point of view, the drinkability of the water it comes in contact with (test report No. 163404 by the GIORDANO INSTITUTE);
- allows interventions on water saturated beds;
- is easy and fast to install.

Application

Preparing the product:

- Pour the contents of a 25 kg NORDCEM bag slowly into a bucket containing 5÷6 litres clean water, and mix with a trowel or low power mixer to get a creamy consistency;
- Leave to rest for 5-7 minutes, then proceed to apply.

Product application procedure according to substrate

▪ *Concrete:*

- Clean the surface with a high power pressure washer, brush or sand to eliminate stripping compound residues, incrustations and powdery bits;

- Remove spacer irons (cut them 1 cm down inside the concrete layer), nails and plugs;
 - Open the casting restarts;
 - Fill and make up cove joints (along corners) with GROVE RAPIDO, a non-shrinking thixotropic mortar;
 - Wet to saturation;
 - Apply NORDCEM (grout consistency) with a flat brush or scrubber.
- Yield: 2.0÷2.5 kg/m² in one or two layers at a few hours interval.

▪ *Brick walls and embedded walls:*

For a good waterproofing effect a new substrate must be created as follows:

- Wet generously and prime with diluted SUPERLATEX;
 - Render with sand, cement and SUPERLATEX;
 - The day after, wet and apply NORDCEM;
- Yield: 1 kg/m².
- apply GROVE RAPIDO and make up a layer at least 5 mm thick;
 - the day after, wet and apply one finishing layer of NORDCEM.
- Yield: 1 kg/m².

Warnings

- ✓ Apply at temperatures between +5 and +30°C.
- ✓ Protect the newly applied layer from the sun.
- ✓ To make a plaster, do a light rendering on a NORDCEM layer, previously laid 4÷6 hours before.
- ✓ If NORDCEM has already set for a few days, render with sand, cement and SUPERLATEX.
- ✓ About half an hour following preparation, the mix will start to thicken and set: add some water and mix to continue using it.

Technical features

Mass per volume	g/cm ³	1.6 ± 0.2
Impermeability to water, UNI 8202-21°	bar	> 3
Contact water chemical drinkability test, DPR 236/88	/	Conforming g
Mix useful life	min	120 ± 10
Complete setting	Days	> 28

Note: test methods refer to the regulations quoted next to them.

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Packaging and storage

NORDCEM is available in two colour versions: GREY and WHITE.

Packs	10 or 20 kg containers 25 kg bags on 56 bag pallets
Storage	12 months in the original packs, in a sheltered dry place, at between +5°C and +35°C. Protect from dampness.

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