

SUPERLATEX

Polymer latex for modifying and bonding sand and cement admixtures



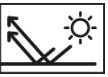
TECHNICAL FEATURES



WATERPROOF



ELASTIC



UV RESISTANT



FROST



IN/OUTDOOR



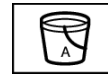
LOW TEMP.



FAST CURING

FIELD OF APPLICATION

APPLICATIONS



1 PART



READY TO USE

Description

SUPERLATEX is a water based polymer latex based on flexible copolymers, emulsifiers, stabilizers and additives.

When added to a mixture of sand and cement, SUPERLATEX greatly increases its anchoring capacity, flexibility and water tightness.

Field of application

SUPERLATEX is used as:

- ▶ An adhesive for:
 - concrete screeds to be anchored to the substrate.
 - bonding green concrete to hardened concrete.
 - plastering on old walls.
 - plastering on concrete surfaces.
 - installation of covers and thresholds in marble, granite etc.
- ▶ A modifier of Portland cement mortars to make:
 - patching mortars.
 - mortars for repairing damaged concrete;
 - plasters with very low water absorption.
 - shelling on corners for subsequent waterproofing treatments.
- ▶ An additive for osmotic cements to reduce drying speed and increase flexibility.

Advantages

SUPERLATEX shows the following advantages:

- It increases flexibility, durability and wear resistance.
- It reduces water-to-cement ratio and shrinkage.
- It prevents bleeding of mortars.
- It gives the mortar excellent resistance to frost, salt penetration and chemical aggression.
- It imparts excellent adhesion to concrete, iron, brick, glass, asphalt, wood and expanded polystyrene.
- It reduces corrosion and protects concrete reinforcement.
- It is applicable on damp surfaces.
- It allows to produce special mortars cheaper than epoxy or polyester ones.

SUPERLATEX

General preparation of the laying surface

Prepare the surface as for a normal application of cement mortars, as dictated by the state of the art (see "Application of the product").

Product preparation

Shake the package of SUPERLATEX before picking.

► *Materials for preparing the mixture*

- Sand: it must be washed and free of excessive fine parts.
- Cement: SUPERLATEX is compatible with all types of cement (Type II, Type V and sulphate-resistant).
- Water: the strong plasticizing effect of SUPERLATEX significantly reduces the amount of water required for the pre-set workability.

► *Mixing*

Mixing should preferably be conducted in a concrete mixer.

→ Operational sequence:

- Load the required quantities of cement and sand into the mixer and mix dry for at least 1 minute.
- Introduce, under mixing, the solution of SUPERLATEX and pre-prepared water (see "Application of the product").
- Mix until the mixture is evenly wet.

Manual mixing is permitted only when the total weight is less than 25 kg.

Product application

To obtain the best results from SUPERLATEX, carefully avoid the product dries when processed.

The processing steps must be carried out in "fresh on fresh" mode.

The use of SUPERLATEX differs depending on the intervention topology.

► *Adhesion primer for cement screeds or the resumption of casting*

- Carefully wet the substrate until saturated, at least one hour before starting.
- Dilute 1 part SUPERLATEX with 2 parts water and apply this mixture directly on the surface as a primer.
- Add cement to the previously prepared priming solution and mix it to obtain a grout.
- Apply the grout with a brush a few minutes before proceeding with the next step.
- Within a few minutes, proceed with the laying of the screed or the resumption of casting.

► *Adhesion primer for plasters*

- Wet the surface.
- Apply a first coat of SUPERLATEX diluted with three parts of water.
- Add cement and sand to the previously prepared solution of SUPERLATEX and mix until you get a grout.
- Apply this grout as a rough coat.
- Proceed with the application of the plaster.

► *Installation of marble covers and thresholds*

- Wet the surface.
- Dilute 1 part SUPERLATEX with 1 parts water and apply this mixture directly on the surface as a primer.
- Add cement and sand to the previously prepared solution of SUPERLATEX and mix to obtain a mixture suitable for bedding of the chosen material.

► *Patching mortar, mortar for repairing deteriorated concrete and fine mortar for skimming with strong adhesion*

- Carefully wet the substrate until saturated, at least one hour before starting.
- Apply a coat of prepared primer to the substrate by diluting 1 part of SUPERLATEX with 3 parts water.
- Prepare the mortar with sand, cement and, as a mixing liquid, SUPERLATEX diluted in water as above (primer).

SUPERLATEX

► Plasters with very low water absorption

- Wet the surface.
- Apply a coat of prepared primer to the substrate by diluting 1 part SUPERLATEX with 2 parts water.
- Prepare the mortar by mixing cement (1 part by weight), sand (3 parts by weight) and, as a mixing liquid, SUPERLATEX diluted in water as above (primer).

► Shelling on corners for subsequent waterproofing treatments

- Wet the surface with a coat of primer prepared by diluting 1 part SUPERLATEX with 3 parts water.
- Prepare the mortar by mixing cement (1 part by weight), sand (3 parts by weight) and, as a mixing liquid, SUPERLATEX diluted in water as above (primer).

The same mixture can be used as an iron cover for tie rods cut on concrete walls, before waterproofing.

Consumption

type of application	minimum consumption	maximum consumption	u.m.	notes
As latex for the modification of cement mortars (liters of SUPERLATEX per 1 L of mixing water)	0,33	0,40	L	(1)

(1) For all intended uses, consult the "Product application" section in the technical sheet.

Tool cleaning

- Fresh product: cleaning with water (also hydrowashing).
- Hardened product: mechanical removal.

Useful tips for laying

- Do not use lime in preparations with SUPERLATEX.
- SUPERLATEX is not compatible with "salty" sands.
- Do not apply at temperatures below +5°C.
- Avoid direct contact with copper and manganese.
- Read the Safety Data Sheet before use.

Technical Data

► PRODUCT IDENTIFICATION DATA	u.m.	value
Appearance	-	White latex
Density at 23°C, EN ISO 2811-1	kg/L	1,03 ± 0,02
Dry matter (105°C, 1 hour), ISO 3251	-	(48 ± 1)%
pH (potentiometric method) at 23°C, ISO 976	-	9,0 ± 0,5
Kinematic viscosity (cup 4 ISO, 23°C), EN ISO 2431	s	35 ± 5
Minimum Film Forming Temperature (MFFT), ISO 2115	°C	+5
► APPLICATION DATA AND FINAL PERFORMANCE	u.m.	value
Application temperature	°C	+5 to +35
Resistance to freeze-thaw cycles (adhesion measurement) *	MPa	> 1,1
Adhesion on concrete, support type MC 0.40 (according to EN 1766), EN 1542 *	MPa	1,5 ± 0,2

NOTES

*: Data measured on mortar prepared with SUPERLATEX (see below).

► Comparison between a cement mortar prepared with water only (BLANK), and another prepared with water plus SUPERLATEX (SUPERLATEX):

- Sand (3 parts by weight).
- Portland cement CEM II/A-LL 32.5 R (1 part by weight).
- Mixing liquid: water (BLANK) or SUPERLATEX diluted with 2 parts water.

SUPERLATEX

• Hobart-type mixer (compliant with UNI EN 196-1).

► Risultati:

► FINAL PERFORMANCE	u.m.	BLANK	SUPERLATEX
Initian setting time, EN 196-3	min	210 ± 30	330 ± 30
Compressive strength (after 28 days), EN 1015-11	MPa	4,0 ± 0,3	6,5 ± 0,3
Flexural strength (after 28 days), EN 1015-11	MPa	1,5	2,8
Water absorption after 24 hours (weight gain in %)	-	100 %	10 %
Water absorption after 7 days (weight gain in %)	-	100 %	36 %

Tab. 1: Comparison between cement mortars prepared with water only (BLANK), and with water + SUPERLATEX (SUPERLATEX).

Product storage

- 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.

Packaging

VARIANT	PACKAGE	ADR	PACKAGE / PALLET	COMPONENTS	NOTES
-	12 x 1 L bottles	NO	30 boxes		-
-	4 x 5 L jerry cans	NO	24 boxes		-
-	20 L - jerry can	NO	24 jerry cans		-

ADR legend:

NO = NON-DANGEROUS goods

P* = DANGEROUS goods packed in limited quantities (packed as per ADR Chapter 3.4)

Si = DANGEROUS Goods

LEGAL NOTES

Any advice concerning the methods of use of our products reflects the current state of knowledge and does not imply any guarantee and/or responsibility as to the outcome of the application. Consequently, the customer must verify the product's suitability for the intended use and purposes by testing the product in advance. The Internet website www.nordresine.com contains the latest revision of this technical sheet: in case of any doubts, verify the date of revision (where missing, use the date of issue) by consulting the "PRODUCTS" section.

EDITION

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