

X-POWDER

Polyurethane dust-proof coating for floors



CE marking:
→ EN 1504-2 (C) • Principles: MC-IR



TECHNICAL FEATURES



UV RESISTANT



FROST



STAIN RESISTANT



LOW TEMP.



IND./OUTDOOR



INT. FLOORS



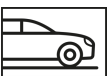
IND. SHEDS



FAST CURING



WALKABLE



CARRIAGEABLE

FIELD OF APPLICATION

APPLICATIONS



1 PART



READY TO USE



ROLLER

Description

X-POWDER is a solvent-based polyurethane impregnating agent with very high penetration (on various types of support) that cross-links by reaction with atmospheric humidity (hygrohardener). X-POWDER does not yellow over time due to exposure to sunlight.

CE Marking

► EN 1504-2

X-POWDER meets the principles defined by EN 1504-9 ("Products and systems for the protection and repair of concrete structures: definitions, requirements, quality control and conformity assessment. General principles for use and systems") and the requirements of EN 1504-2 ("Concrete surface protection systems") for the class:

→ MC-IR

- For Principle 2 (MC) - Moisture Control: 2.2 Coating (C).
- For Principle 8 (IR) - Increasing Resistivity.

Colour

X-POWDER is a clear and transparent slightly straw-yellow liquid. Once cross-linked, X-POWDER is perfectly transparent, colorless and gives treated surfaces a permanent "wet effect."

Field of application

X-POWDER is used as:

- consolidating and dust-proof coating of concrete surfaces finished with neutral or poorly absorbent coloured hardening dusts;
- bonding coat for coatings of epoxy or polyurethane nature (both solvent and water-based), on low absorbent surfaces (clinker tiles, porcelain tiles, vitreous mosaic, etc.) after treating the surface with TILEPUR BASE adhesion promoter (see Technical Data Sheet);
- thanks to the absence of yellowing even in outdoor environments, X-POWDER is ideal as a visible consolidator and anti-dust and as an adhesion promoter for resin-based coatings, including transparent ones.
- X-POWDER can be used both indoors and outdoors.

Advantages

- X-POWDER penetrates deep into the support;

X-POWDER

- X-POWDER is totally yellow-free from exposure to light and weather;
- X-POWDER shows a high cohesive and binding power on the materials on which it is applied;
- X-POWDER hardens rapidly both on the surface and in depth even at low temperature (up to +0°C);
- X-POWDER, applied as it is, shows excellent adhesion to concrete surfaces and porous stones in general;
- X-POWDER, after treatment with TILEPUR BASE, shows excellent adhesion to poorly absorbent tiled surfaces.

General preparation of the laying surface

- Clean the surface thoroughly in order to remove dust, dirt, grease, oil, old adhesives or paints, efflorescence, mold and other materials foreign to the structure to be treated.
- If you have washed with water, allow it to dry thoroughly before applying X-POWDER.

Specific preparation of the laying substrate

► On new concrete pavement

- Remove dust and any encrustations resulting from cutting the joints by washing thoroughly with water.
- Remove the water completely, taking care that no stagnation remains in the area to be treated.
- Leave to dry for at least 1 – 2 days.
- Apply X-POWDER evenly with a roller, avoiding product build-up.

In case of subsequent coating with resins, proceed with the times indicated below (I).

► On old concrete pavement or on air stones

- Cleanse with STRIPPER (see Data Sheet) diluted 5 times in water. In the case of pre-existing wax-based treatments, insist on STRIPPER-based dewaxing.
- Rinse and completely remove excess water, making sure that there is no stagnation in the area to be treated.
- Allow to dry for at least 3 – 4 days.
- Apply X-POWDER evenly with a roller, avoiding product build-up.

In case of subsequent coating with resins, proceed with the times indicated below (I).

► On poorly absorbent tile coverings

- Abrade the surface with a dry diamond grinding wheel and vacuum the dust perfectly.
- Apply a coat of TILEPUR BASE (see Data Sheet) to a roller or brush as an adhesion promoter. At this stage, do not accumulate product (consumption around 40 g/m²) and carefully take care of the wetting of the entire surface to be treated.
- After applying TILEPUR BASE, wait about 20 minutes at +23°C (or 45 minutes at +10°C) before applying X-POWDER.

In case of subsequent coating with resins, proceed with the times indicated below (I).

→ Overlay times for resin coatings on surfaces treated with X-POWDER:

- 40 minutes at +23°C 50%RH.
- 2 hours at +10°C 60%RH.

Product preparation

- The product is ready for use.
- Always shake the container before each withdrawal.
- Always close the package after each withdrawal.

Product application

- A solvent-resistant brush or brush must be used for the application of X-POWDER.
- During application, make sure that the substrate is completely and evenly wetted.
- Avoid creating product stagnation that could give rise to unsightly effects after drying.
- Do not dump leftover product in the original container.

X-POWDER

Consumption

type of application	minimum consumption	maximum consumption	u.m.	notes
On concrete (depending on the porosity of the substrate)	0,12	0,13	L/m ²	-
On natural stone	0,12 *	3,00 **	L/m ²	-
On tiles (after treatment with TILEPUR BASE, 40 g/m ²)	0,08	0,09	L/m ²	-

* On porphyry.

** On white Ostuni stone (penetration of more than 2 cm in 2-3 coats).

Tool cleaning

- Fresh product: cleaning with ACETONE, TIPEWALL SOLVENT, NORDPUR SOLVENT, polyurethane thinner or nitro thinner.
- Hardened product: mechanical removal, specific paint strippers (GEL STRIPPER or FLUID STRIPPER) or heat gun.

Useful tips for laying

- When applied in poorly aerated areas, it is advisable to adequately ventilate the environment and protect the airways wearing a dust mask equipped with a type A filter (brown strip, against organic vapour) or a type ABEK combined filter (brown-yellow-grey-green strip), according to EN 141.
- In case of high absorption by the substrate, the product can be applied in several coats spaced 12 – 24 hours apart.
- Always close the package after each withdrawal.
- Never transfer any remaining product back to the original packaging.
- Store the product away from heat sources.
- Carefully read the Safety Data Sheets of all products included in the X-POWDER system before use.

Technical Data

► PRODUCT IDENTIFICATION DATA		value
Density at 23°C, EN ISO 2811-1	kg/L	0,952 ± 0,004
Kinematic viscosity (cup 3 ISO, 23°C), EN ISO 2431	s	23 ± 2
Appearance	-	Colorless transparent liquid with strong solvent odor
► APPLICATION DATA AND FINAL PERFORMANCE		value
Minimum commissioning time (at +4°C, 70% RH)	Hours	24
Minimum ripening temperature	°C	0
► TECHNICAL DATA IN ACCORDANCE WITH EN 1504-2		value
Direct traction adhesion, EN 1542	Mpa	3.4 ± 0.3 (Substrate fracture)
Capillary absorption and water permeability, EN 1062-3	kg/(m ² ·√h)	0,09 ± 0,01
Water vapour permeability, SD equivalent air thickness, porous substrate, EN ISO 7783	m	0,011 ± 0,001 (Class I)

X-POWDER

► **CHEMICAL RESISTANCE EN ISO 2812-1 (method 2). Contact time 60 days at +23°C. n.o.**

		value
= no alteration at the end of the period		
Distilled water	-	n.a.
Sea water	-	n.a.
Sulfuric acid 10%	-	At 25 days, bubbles
Hydrochloric acid 10%	-	n.a.
Nitric acid 10%	-	At 10 days, bubbles
Acetic acid 10%	-	At 3 days, bubbles
Formic acid 10%	-	At 2 days, bubbles
Lactic acid 25%	-	n.a.
Citric acid 10%	-	n.a.
Linseed oil	-	n.a.
Caustic soda 20%	-	n.a.
Sea salt solution 10%	-	n.a.
Ammonia 10%	-	At 20 days, bubbles
Chlorinated water (3% Chlorine)	-	n.a.
Hydrogen peroxide 10%	-	At 30 days, bubbles
Petrol	-	n.a.
Xylene	-	n.a.
Methylene chloride	-	At 1 day, disintegration
Acetone	-	At 5 days, softening
Ethyl alcohol 12%	-	n.a.

Product storage

- 12 months in the original closed packaging, in a dry, covered environment, protected from sunlight and at a temperature between +5°C and +35°C.
- Keep in a dry place.

Packaging

VARIANT	PACKAGE	ADR	PACKAGE / PALLET	COMPONENTS	NOTES
-	12 x 1L cans	P*	32 boxes		-
-	4 x 5 L cans	P*	18 boxes		-

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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