




-  RESIN FLOORS
-  PAVIMENTI IN RESINA
-  SOLS EN RÉSINE
-  POSADZKI ŻYWICZNE - DEKORACYJNE I PRZEMYSŁOWE



SW SMALTO

Water based epoxy coating

Description

SW SMALTO is a water based bicomponent product made up of:

component A: a mix of liquid epoxy prepolymers and additives;

component B: copolymerization amine, pigments, additives and water.

SW SMALTO creates a film impermeable to water and oil, but permeable to water vapour, offering excellent adhesion to underlying surfaces and good overall chemical resistance.

SW SMALTO is available in four standard colours: white, grey, red and green.

Other colours available on request.

Range of use

SW SMALTO is mainly used to coat quartz finished industrial concrete floors: in particular, it is highly indicated for stain and dust protection purposes in warehouses, depots, garages, etc.

Test report No. 173969/e issued by EMPA (Zurich) (Federal Laboratory for Materials Testing and Research), attesting the product suitability for tunnel walls lining in the roadwork sector, is available on request.

Application

Preparing the underlying surface:

Carefully examine the surface and make sure it provides a suitable and structurally sound base.

- *Newly laid floors:*

Before applying the product, check out the surface wettability, as it might have been jeopardized by water repellent substances present in surface consolidation and hardening treatments: in this case you must sand down with a honing machine before carrying on.

- *Old floors:*

Proceed to wash accurately with STRIPPER diluted in water, then brush with a monobrush machine fitted with proper discs, and finally rinse with abundant water, aspirating all liquids. You will thus remove dust, dirt and soluble grease. In case of concrete contaminated by oils, old adhesives and paint, efflorescence, rust, mould or other, proceed to sand down as detailed above.

- *Old floors holes:*

Any surface depression or irregularity deeper than 5 mm must be evened out with GROVE RAPIDO or RASANTE 2000; lesser ones may be treated with W3.

- *Old floors with low compression resistance problems accompanied by substantial porosity:*

They must be consolidated by impregnation with one or more layers of NORPHEN SW SOLID diluted 4 to 7 times in water (dilution to be worked out according to surface absorption properties).

Preparing the product:

Pour SW SMALTO component A into component B and mix well using a drill with proper attachment.

Applying the product:

You can apply with a roller, brush or sprayer;

Adjust viscosity, if necessary, by adding water up to max 10÷15% in weight;

About 24 hours after completing all surface preparations apply SW SMALTO in one or more layers, at one day interval, until you reach the desired thickness.

Amount of product required

A 0.15÷0.20 mm thick coating will require from 0.25 to 0.30 kg/m² product (A+B), according to surface absorption properties.

Warnings and special instructions

- You should stop any application 90 minutes after mixing the two components (A and B);
- Do not use the product at temperatures lower than +10°C.
- mix components A and B in the exact proportions indicated on the pack;
- Read the safety card.



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Technical features

Mass per volume, UNI 8310	g/cm ³	1.47 ± 0.05
pot-life, UNI EN ISO 9514	min	80 ± 10
Surface drying time, UNI 8904	hours	6 ± 1
Setting time	days	> 7
Adhesion to concrete, UNI EN 24624	N/mm ²	6.3 ± 1.5
UV and condensation resistance, ASTM D 4329 (168 hours exposure)	ΔE Δ gloss	> 10 > 40
Abrasion resistance, UNI 8298-9	mg	< 140
Steam jet resistance, DIN 4768	s	> 30
Ball impact test, RdT 31	kg	> 1
Resistance to washing, DIN 53778-2	cycles	> 5000
Surface gloss (gloss 60°), UNI EN ISO 2813	---	35 ± 5
Easy cleaning test, DIN 53778-2	cycles	< 800
Steam permeability, DIN 52615	μ	~ 33000
A : B ratio		1 : 3

Note: test data refer to quoted regulations.

Chemical resistance, UNI EN ISO 2812-1 (method 2)

30% hydrochloric acid in water	1-2
10% sulphuric acid in water	3
20% phosphoric acid in water	1-2
30% acetic acid in water	1
15% ammonia in water	5
30% caustic soda (sodium hydroxide) in water	5
3.5% hydrogen peroxide (12 volumes)	5
Mix of 1% acetic acid and 0.5% hydrogen peroxide in water	4
Ethyl acetate	5
Denatured ethanol	4
Industrial acetone	5

(1 = product disintegration, 5 = no alteration; for the full range see [appendix A](#))

Packing and storage

SW SMALTO is available in 8 kg packs.
Store at temperatures between +4 and +30°C.

Legal notice

Tips on how to use our products match the current state of our knowledge and do not imply any assumption of responsibility or/and liability for the final result of works. Therefore, customers are not exempt from the responsibility to verify the suitability of products for use and final aims through preliminary tests. The website www.nordresine.com contains the latest revision of this datasheet.

Edition

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