

SW SOLID

2 part water-based consolidating agent



CE marking:

→ EN 1504-2 (C) • Principles: MC-IR



Specifications



Field of application



applications



Description

SW SOLID is a water-based transparent bi-component epoxy cortical consolidating agent made up of:

- Component A: mixture of liquid epoxy prepolymers, additives and emulsifiers.
- Component B: copolymerization amines and additives.

The product has high penetrating capacity even on wet substrates.

After polymerization, SW SOLID develops an exceptional consolidating power and gives rise to a surface film with anti-dust and anti-oil power.

CE marking

► EN 1504-2

SW SOLID satisfies the requirements of EN 1504-9 ("Products and systems for the protection and repair of concrete structures. Definitions, requirements, quality control and evaluation of conformity. General principles for use of products and systems") and t

→ MC-IR

- For Principle 2 (MC) - Humidity control: 2.2 Coating (C), ZA.1e.
- For Principle 8 (IR) - Resistance increase through the limitation of the humidity content: 8.2 Coating (C), ZA.1e.

Field of application

SW SOLID is used for the realization of:

- Transparent anti-dust and anti-oil treatments with a glossy effect, on quartz-hardened concrete floors (with or without iron-oxide colouring) matured for at least ten days.
- Consolidating treatments for plasters or mortars without cohesion.
- Primer for the treatment of concrete floors before coating with film resins.
- Consolidating finishing treatment for polymer-cement trowel coatings, microcements and skim coats.
- Additive for mortars, skim coats and concretes to increase adhesion performance, mechanical strength, flexibility in interiors and exteriors.

Advantages

- SW SOLID has high impregnating characteristics and good chemical resistance.
- SW SOLID contains no solvents and is virtually odorless.
- SW SOLID gives rise to a vapor-permeable film.
- SW SOLID has a high resistance to atmospheric agents that makes it suitable for outdoor use.

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Specific preparation of the laying support

► Use as a dustproof

- Carry out a thorough cleaning of old surfaces with products suitable for the elimination of anything that may inhibit the adhesion and penetration of SW SOLID (greases, oils, paints, etc.). Normally a washing with STRIPPER and mechanical brushing are sufficient. At the end of the treatment, suck all the washing liquid from the substrate, rinse and wash with hard surface detergent and rinse thoroughly.

► Use as a consolidator for spatulated floors

- Sand the surface (if required by the application cycle) and carefully remove the dust by vacuuming.

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Preparing the product

► Use as anti-dust

- Pour SW SOLID (A) into the comp container. B and mix with a professional mixer.
- Add 3 – 4 parts water for each part by weight of compound A+B.
- Mix well until you get a homogeneous milky liquid.
- Proceed with the installation.

► Use as a consolidator for spatulated floors

- Pour SW SOLID (A) into the comp container. B and mix with a professional mixer.
- Add 4 – 6 parts water for each part by weight of compound A+B.
- Mix well until you get a homogeneous milky liquid.
- Proceed with the installation.

► Use as an additive for cementitious mixtures

- Pour SW SOLID (A) into the comp container. B and mix with a professional mixer.
- Add the A+B mixture to the mixing water of the cement premix in a percentage between 3 and 10% of the weight of the water.
- Mix well until you get a homogeneous milky liquid.
- Use the mixture thus obtained to make the cement mixture.

► Use as a bonding primer for damp surfaces

- Pour SW SOLID (A) into the comp container. B and mix with a professional mixer.
- Proceed with the laying of the pure A+B mixture.

Application of the product

► Getting Started

- Make sure that the temperature of the substrate is at least +10°C.

► Use as anti-dust

- Apply in 2 coats with a short-haired roller.
- To obtain a strong anti-oil effect, apply a third coat (3 coats in total).

► Use as a consolidator for spatulated floors

- Apply directly to the surface in a single coat using a wax spreader.
- Complete the treatment with a finish (COAT LUX or MAT, SEAL WAX, SUPERMAT, see Technical Data Sheets) in accordance with the installation specifications.

► Use as an additive for cementitious mixtures

- Use the mixture of water and SW SOLID to prepare the cementitious product according to the instructions indicated in the Technical Data Sheet of the latter and use it normally.

NOTE: Adding SW SOLID may change the machinability and setting time of the premix to which it is added.

► Use as a bonding primer for damp surfaces

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- Apply with a roller in a single coat (the product must not be diluted).
- Overapply by the next day.

Consumption

type of application	minimum consumption	maximum consumption	u.m.	notes
As a dust-proofing agent, in 2 coats. 1 kg (A+B) + 3÷4 kg water.	100	100	g/m ²	(1)
As an anti-oil agent, in 3 coats. 1 kg (A+B) + 4÷6 kg water	150	150	g/m ²	(1)
As a consolidating agent for floors with polished plaster effect. 1 kg (A+B) + 4÷5 kg water.	40	60	g/m ²	(1)
As an additive for cementitious mixes, per 1 L of mixing water.	30	100	g/L	(1)
As a gripping base coat for damp surfaces.	150	200	g/m ²	(1)

(1) The consumption shown in the table is for the undiluted product.

Cleaning of tools

- Fresh product: cleaning with water (also hydrowashing).
- Hardened product: mechanical removal, specific paint strippers (GEL STRIPPER or FLUID STRIPPER) or heat gun.

Useful application tips

- After 90 minutes of mixing the two components A and B, stop applying even if the product does not show signs of thickening.
- Do not use at temperatures below +10 °C.
- Mix components A and B according to the ratio indicated on the package and in this Technical Data Sheet (see Technical Data tab). In case of partial use of the package, weigh the two components with a precision scale.
- For diluted product: if there are deposits at the bottom of the container, it indicates that the product has not been sufficiently mixed. Continue mixing until perfect homogeneity is reached.
- Read the Safety Data Sheet carefully.

Technical data

► PRODUCT IDENTIFICATION DATA		value
Density (comp. A) at 23 °C, 50%RH, EN ISO 1675	kg/L	1,081 ± 0,002
Density (comp. B) at 23 °C, 50%RH, EN ISO 1675	kg/L	1,040 ± 0,003
Density (A+B) at 23 °C, 50 %RH, EN ISO 1675	kg/L	1,071 ± 0,004
Appearance (Component A)	-	Milky viscous liquid
Appearance (Component B)	-	Clear straw yellow viscous liquid
pH (potentiometric method) at 23°C, A+B diluted 1:4 with water, ISO 4316	-	9.8 ± 0.2

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► APPLICATION DATA AND FINAL PERFORMANCE		value
Mixing ratio by weight (A:B)	-	2 : 1
Pot-life (viscosimetric), double viscosity A+B, EN ISO 9514	Min	60 ± 9
Application temperature	°C	from +10 to +40
Surface drying time (23°C, 50%RH), EN ISO 9117-3	Hours	2,0 ± 0,5
Full ripening time (at 23°C, 50% RH)	days	7
Wear resistance – Taber method, grinding wheel CS17, 1000 rpm, load 1 kg, EN ISO 5470-1	Mg	110 ± 10
Shore D hardness (A+B, maturation 7 days at +23 °C, 50 %RH), EN ISO 868	-	(57 ± 3)°
Surface gloss, 60° gloss, 1 part of (A+B) + 2 parts of water on fibre cement, EN ISO 2813	-	75 ± 6
Resistance to UV and condensate cycles, cycle A (8 hours UVA-340 at 60°C + 4 hours condensation 50°C), 168 hours overall, yellowing measurement on RAL 9002, RE, ASTM D4329	-	15 ± 2
Resistance to UV and condensate cycles, cycle A (8 hours UVA-340 at 60°C + 4 hours condensate 50°C), 168 hours overall, opacification measurement on RAL 9002, Rgloss (EN ISO 2813 method), ASTM D4329	-	- 72 ± 5

► TECHNICAL DATA IN ACCORDANCE WITH EN 1504-2		value
Water vapour permeability, SD equivalent air thickness, porous substrate, EN ISO 7783	m	0,14 ± 0,05 (Class I)
Capillary absorption and water permeability, EN 1062-3	kg/(m²•vh)	0,08 ± 0,01
Reaction to fire (Euro-class), EN 13501-1	-	F

► CHEMICAL RESISTANCE EN ISO 2812-3 (Evaluation of the results of chemical resistance tests: 1 = disintegration of the product, 5 = no alteration. For the complete scale see Tab. 1, Appendix A)		value
Hydrochloric acid 30% in water	-	1
Sulfuric acid 10% in water	-	1
Phosphoric acid 20% in water	-	1
Acetic acid 30% in water	-	1
Ammonia 15% in water	-	5
Soda (sodium hydroxide) 30% in water	-	5
Hydrogen peroxide 3.5% (12 volumes)	-	5
Mixture of acetic acid (1%) and hydrogen peroxide (0.5%) in water	-	3
Ethyl acetate	-	4
Denatured ethyl alcohol	-	4
Technical acetone	-	4

Product storage

- 24 months in the original closed packaging, in a dry, covered environment, protected from sunlight and at a temperature between +5°C and +35°C.
- Protect the product against frost.

Packages

VARIANT	PACKAGING	ADR	PACK / PALLET	COMPONENTS	NOTE
-	kit (A+B) - 3 kg	P*		A = 2 kg (plastic bucket) B = 1 kg (jar)	
-	kit (A+B) - 7,5 kg	P*		A = 5 kg (plastic bucket) B = 2.5 kg (plastic bucket)	

ADR legend:

NO = NON DANGEROUS goods

SW SOLID

* = DANGEROUS goods packed in limited quantities (packaged as per Chap. 3.4 ADR)

I = 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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