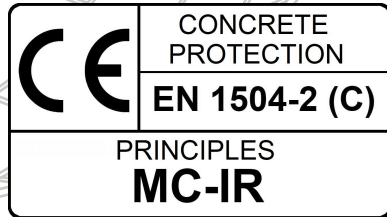


- EN** PRIMERS AND ADHESION PROMOTERS
- IT** PRIMERS E FONDI AGGRAPPANTI
- FR** PRIMERS ET FONDS D'ADHÉSION DÉTAIL PRODUITS
- PL** GRUNTY I PRIMERY



SW SOLID

Two-part, anti-dust, anti-oil,
reinforcing agent in aqueous emulsion

Description

SW SOLID is a two part product consisting of:

- component A: a mixture of liquid epoxy pre-polymers, additives and emulsifiers;
- component B: copolymerization amine, additives and emulgators.

The product has a high penetration capability even on wet substrates and after polymerization, provides both an excellent reinforcement and an anti-dust and oil-resistant superficial film.

CE marking

- ▶ EN 1504-2

SW SOLID complies with the principles laid down in EN 1504-9 ("Products and systems for the protection and repair of concrete structures. Definitions, requirements, quality control and evaluation of conformity - Part 9: General principles for the use of products and systems") and fulfils the requirements of EN 1504-2 ("Products and systems for the protection and repair of concrete structures"). Its designation is:

→ MC-IR

- Principle 2 (MC) – Moisture control: 2.2 Coating (C), ZA.1e.
- Principle 8 (IR) – Increasing resistivity by limiting moisture content: 8.2 Coating (C), ZA.1e.

Where to Use

SW SOLID is used for the realization of:

- anti-dust and anti-oil treatments with gloss effect on quartz hardened concrete floors (with or without iron oxide dyestuff) that must have cured for at least ten days;
- as a protective waterproofing agent for water storage (non-potable water) tanks and reservoirs;
- reinforcement treatments for non-cohesive plaster or mortar.

Advantages

SW SOLID:

- exhibits high impregnation properties and a good chemical resistance;
- is solvents-free, respecting in this way both the environment and the applicator;
- gives rise to a water vapour-permeable film.

Area Preparation

The substrate must be carefully checked:

- any new surface, shall be washed with water;
- old surfaces shall be thoroughly cleaned with products suited to the elimination of everything that can inhibit the adhesion and penetration of SW SOLID (grease, oils, paints, etc.). Normally, washing with STRIPPER and mechanical brushing, followed by the sucking up of the washing liquid from the substrate, is sufficient.

Product Preparation

- pour component B into component A and mix with a professional mixer until component B is fully emulsified;
- after that, dilute with water in the following way:

1 st coat: add 3 litres of water to 1 kg of product (A+B) and keep stirring until the water is perfectly blended;

2 nd coat: add 2 litres of water while mixing for each 1 kg of product (A+B).

3 rd coat (only for anti-oil treatment): add 2 litres of water while mixing for each 1kg of product (A+B), or apply the second coat thoroughly.

SW SOLID is also used as an anchoring base coat on concrete areas with a moisture content ranging between 3 and 4.5%, before subsequent coating with solvents-free liquid epoxy resins. Apply the product undiluted using a roller for a consumption/usage of approx. 400 g/m².

Product Application

Make sure that the surface temperature is at least 10°C. Apply with roller or spray in two coats spaced 12-24 hours apart from each other (first coat preferably with roll).

Tools Cleaning

If the product is still fresh, remove it with just clear water, if it has hardened remove it by mechanical means.



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Coverage

A 40 m² area can be treated with 1 kg of appropriately diluted product.

Warnings

- The application must be stopped after 90 minutes have elapsed from the moment components A and B were mixed;
- Do not use at temperatures below +10°C.
- Mix parts A and B according to the precise ratio listed on the package. In case of partial use of the packaging, the two components must be weighed.
- Possible existing deposits on the bottom of the bucket simply indicates that the product was not sufficiently mixed.
- Refer to the Material Safety Data Sheet (MSDS) before use.

Specifications

► PRODUCT APPLICATION DATA (at +23°C and 50% RH)		
Mixing ratio by weight (A:B)	-	2 : 1
Bulk density (mix A+B), EN ISO 2811-1	kg/L	1,07 ± 0,02
pH, ISO 4316	-	9,8 ± 0,3
Pot-life, EN ISO 9514	min	60 ± 15
Superficial drying time, on concrete substrate, EN ISO 9117-3	hours	2,0 ± 0,5
Application temperature	°C	Da +10 a +40
► FINAL PERFORMANCE		
Gloss (at 60°), Diluted with 2 parts of water, applied on fibre-cement, EN ISO 2813	-	75 ± 10
Hardness, Shore D, after 7 days at 23°C 50%RH, DIN 53505	-	57 ± 2
Resistance to UV and condensate, after 168 hours exposure, ΔE, ASTM D 4329	-	>12
Resistance to UV and condensate, after 168 hours exposure, Δgloss, ASTM D 4329	-	-70
Resistance to abrasion, after 7 days, Taber method, CS17 abrasive wheels, 1000 revolutions, load 1 kg, EN ISO 5470-1	mg	110 ± 10
► TECHNICAL DATA IN ACCORDANCE WITH EN 1504-2		
Water vapour permeability, EN ISO 7783-2 (on porous substrates)	m	S _D = 0,14 ± 0,05 (Class I)
Water permeability and absorption by capillarity, EN 1062-3	kg/(m ² h ^{0,5})	0,09 ± 0,01
Bond strength by pull-off, EN 1542	MPa	3,2 ± 0,2 (Substrate failure)
► CHEMICAL RESISTANCE IN ACCORDANCE WITH EN ISO 2812-1 (method 2)		
30% hydrochloric acid in water		1
10% sulfuric acid in water		1
20% phosphoric acid in water		1
30% acetic acid in water		1
15% ammonia in water		5
soda (sodium hydroxide) 30% in water		5
3.5% hydrogen peroxide (12 volumes)		5
mixture of acetic acid (1%) and hydrogen peroxide (0.5%) in water		4+3
Ethyl acetate		5
denatured ethyl alcohol		4
Technical Acetone		4

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



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Storage

- 24 months in original packaging, in a covered, dry place at temperatures between +5°C and +35°C.
- Frost sensitive.

Packaging

VARIANTE	CONFEZIONE	ADR	CONFEZIONI PER PALLET	COMPONENTI
-	3 kg KIT (A+B)	P*	-	A = 2,0 kg (PP bucket) B = 1,0 kg (PP bucket)
-	7,5 kg KIT (A+B)	P*	-	A = 5,0 kg (PP bucket) B = 2,5 kg (PP bucket)

Legenda ADR:

P* = DANGEROUS goods packed in limited quantities according to Cap. 3.4 ADR.

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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