

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



STONE LC

Epoxy primer for damp surfaces, can be used also at low temperatures (+4°C)

Description

STONE LC is a bi-component product made up of:

- component A: a mixture of liquid epoxy pre-polymers;
- component B: co-polymerisation amine.

Once mixed, STONE LC appears fluid, transparent and self-levelling.

Once dry, it becomes very resistant thanks to the high density of the polymer network bond.

STONE LC is available in two versions: SUMMER and WINTER, to be chosen on the basis of the ambient temperature in which the job is carried out.

In the WINTER version, the product is formulated for hardening in 6 hours at +10°C.

CE marking

- ▶ EN 13813

STONE LC complies with the principles defined in the EN 13813 standard ("Screed material and floor screeds - Screed material: Properties and requirements") with the following designation:

→ SR-B2.0

- Synthetic resin screed (SR)
- Bond strength: > 2.0 MPa (B2.0)

Colour

STONE LC is transparent and slightly amber-coloured.

Field of application

STONE LC was specially formulated:

- for preparing the adhesion layer on damp (or dry) cement-based surfaces, with or without the addition of quartz sand, sprinkled lightly or until saturation, to ensure adhesion of the subsequent resin coatings;
- as a binder for quartz-resin screeds.

Advantages

- STONE LC makes it easy and inexpensive to prepare surfaces to be coated with resins in the presence of dampness and cold weather.
- STONE LC allows for waterproofing and protecting tanks and tubs during the winter season, without having to perform costly interventions in the work zones.
- STONE LC allows for creating resin/quartz screeds with high mechanical resistance and rapid curing.

General preparation of the laying support

- The laying support must be carefully examined to ensure that it is a suitable and structurally sound base.

- The type of treatment must be chosen in relation to the conditions of the surface:

→ diamond-wheel grinding;

→ milling;

→ shot peening.

In this way, dust, dirt, grease, oil, old adhesives or paints, efflorescence, rust, moulds and other foreign matter will be removed.

Preparing the product

- ▶ Preparation of the A+B resin

- Mix component A with a professional mixer at low speed.

- Pour the contents of STONE LC component B into the bucket of component A and mix thoroughly while avoiding the build-up of foam.

NOTE: if the container is used partially, take a scale and weigh the quantities of components A and B according to the cross-linking ratio shown on the label.

- ▶ Preparation of resin/quartz screeds

- Before preparing the A+B resin mix, weigh the quartz of the desired grain size in a mixing container.

Below are the instructions for obtaining two types of resin/quartz screeds:



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→ Resin/quartz screed with damp earth consistency

- STONE LC (A): 3 parts by weight.
- STONE LC (B): 1 part by weight.
- MIX QUARTZ 0.2–1.5: from 40 to 80 parts by weight, depending on the desired consistency.

→ Resin/quartz screed with damp earth consistency and high compressive strength

- STONE LC (A): 3 parts by weight.
- STONE LC (B): 1 part by weight.
- EPOSEAL GROUT M04/T020-T2035 (C): 10 parts by weight
- QUARTZ MIX 0.2–1.5: 12 parts by weight.

- Prepare the A+B resin mix and add it to the quartz.
- Mix all the components until obtaining a homogeneous compound.

Applying the product

- ▶ As a primer
- Apply STONE LC using a roller or block brush.
- The ready-to-use product can be loaded with NATURAL QUARTZ 0.1–0.3 mm (30% by weight on A+B) and applied with a smooth steel trowel.
- If required, lightly sprinkle the surface with NATURAL QUARTZ 0.1–0.6 or 0.4–0.6 mm.

→ Time to overcoating

- Using the product undiluted, to obtain perfect adhesion of the successive coats, subsequent coats must be added within 24 hours.
- Using the product with a quartz sprinkle wet-on-wet, there are no limits to the overcoating time.

▶ As a resin/quartz screed

- Apply according to the normal modes: spread using a straightedge and finish with a trowel.

Consumption

type of application	minimum consumption	maximum consumption	UoM	dilution
For application as an adhesion promoter using a roller	0.30	0.50	kg/m ²	-
As an epoxy binder for quartz/resin screeds with the consistency of damp earth	5	10	kg/100 kg of quartz	-
As an epoxy binder for quartz/resin screeds with the consistency of damp earth WITH HIGH COMPRESSIVE STRENGTH	18.1	18.2	kg/100 kg inert *	-

* 100 kg of "inert" are made up of 45.5 kg of EPOSEAL GROUT M04/T020-T2035 (C) + 55.5 kg of QUARTZ MIX 0.2–1.5.

Cleaning the tools:

- Wet product: clean with ACETONE or nitro thinner.
- Hardened product: remove mechanically, soak for at least 24 hours in ACETONE or nitro thinner, or use paint strippers (FLUID STRIPPER or GEL STRIPPER).

Useful application tips

- Mix components A and B in the exact ratios indicated: if only part of the container is used, weigh the two components according to the ratio indicated on the label.
- Carefully assess the ambient temperature in which the job will be performed to identify, in relation to this fundamental parameter, the suitable version to be used:
 - ▶ STONE LC WINTER for a temperature interval between +4°C and +20°C
 - ▶ STONE LC SUMMER for a temperature interval between +21°C and +35°C



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- Nonetheless, bear in mind that the product must be worked rapidly, by arranging a team capable of operating continuously in a synchronised manner, by preparing the mixed product precisely when the previous one terminates and without idle periods between successive casts.
- Depending on the ambient temperature, the product must be kept cool during summer (to prevent an excessive increase in the system's reaction speed) and warm in winter, as resins tend to crystallise with cold weather becoming less fluid.
- Read the Safety Sheet carefully before using the product.





Technical data

► PRODUCT IDENTIFICATION DATA		
Density (comp. A) at 23°C, 50% R.H., EN ISO 1675	kg/l	1.10 ± 0.02
Density (comp. B) at 23°C, 50% R.H., EN ISO 1675	kg/l	1.00 ± 0.03
Density (A+B) at 23°C, 50% R.H., EN ISO 1675	kg/l	1.05 ± 0.05
Dry residue, A+B	-	100%
Appearance (Component A)	-	Matt transparent liquid
Appearance (Component B)	-	Amber-coloured liquid
Brookfield apparent dynamic viscosity (A+B, WINTER version, at +12°C / 50% R.H.; ASTM#5 spindle, 150 rpm), EN ISO 2555	mPa·s	2200 ± 100
Brookfield apparent dynamic viscosity (A+B, SUMMER version, at +25°C / 50% R.H.; ASTM#5 spindle, 150 rpm), EN ISO 2555	mPa·s	800 ± 70
► APPLICATION DATA AND FINAL PERFORMANCES		
Mix ratio by weight (A:B)	-	3: 1
Pot life (thermometric), SUMMER version, from +20°C, EN ISO 9514	min	15.0 ± 0.2
Pot life (thermometric), SUMMER version from +30°C, EN ISO 9514	min	10.0 ± 0.1
Pot life (thermometric), WINTER version, from +5°C, EN ISO 9514	min	25.0 ± 0.2
Pot life (thermometric), WINTER version, from +20°C, EN ISO 9514	min	10.0 ± 0.1
Application temperature (SUMMER version)	°C	from +21 to +35
Application temperature (WINTER version)	°C	from +4 to +20
Operating temperature	°C	from -20 to +70
Shore D hardness, A+B, WINTER curing for 24 hours at +13°C/70% R.H., DIN 53505	-	(52 ± 1)°
Shore D hardness, A+B, WINTER curing for 48 hours at +13°C/70% R.H., DIN 53505	-	(64 ± 2)°
Shore D hardness, A+B, WINTER curing for 72 hours at +13°C/70% R.H., DIN 53505	-	(73 ± 2)°
Shore D hardness, A+B, SUMMER curing for 24 hours at +25°C/70% R.H., DIN 53505	-	(62 ± 2)°
Shore D hardness, A+B, SUMMER curing for 48 hours at +25°C/70% R.H., DIN 53505	-	(68 ± 2)°
Shore D hardness, A+B, SUMMER curing for 72 hours at +25°C/70% R.H., DIN 53505	-	(76 ± 2)°
Compressive strength after 28 days at +23°C, epoxy mortar: STONE LC (A+B): 4 pp + EPOSEAL GROUT M04/T020-T2035 (C): 10 pp + QUARTZ MIX 0.2-1.5: 12 pp, EN 12808-3	MPa	110 ± 8
Flexural strength after 28 days at +23°C, epoxy mortar: STONE LC (A+B): 4 pp + EPOSEAL GROUT M04/T020-T2035 (C): 10 pp + QUARTZ MIX 0.2-1.5: 12 pp, EN 12808-3	MPa	31 ± 2
► TECHNICAL DATA IN CONFORMITY TO EN 13813		
Bond strength, EN 13892-8	MPa	2.6 ± 0.1 (cohesive fracture of the substrate)

Storage of the product

- 24 months in the closed original packaging, in a dry and covered place away from direct sunlight, at a temperature between +4°C and +35°C.



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Packages

VARIANT	PACKAGE	ADR	PACKAGES PER PALLET	COMPONENTS
SUMMER	4 kg kit (A+B)	P*	-	A = 3 kg (drum) B = 1 kg (bottle)
SUMMER	(A+B) 20 kg	Yes	-	A = 15 kg (drum) B = 5 kg (tank)
WINTER	4 kg kit (A+B)	P*	-	A = 3 kg (drum) B = 1 kg (bottle)
WINTER	(A+B) 20 kg	Yes	-	A = 15 kg (drum) B = 5 kg (tank)

ADR legend:

P* = HAZARDOUS goods packaged in a limited quantity (packaged as indicated in Chapter 3.4 ADR)

YES = HAZARDOUS goods

Legal notice

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 website www.nordresine.com contains the latest edition of this technical data sheet.

EDITION

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