

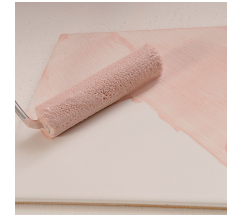


RICRETE 1C

Super-adhesion primer for polished surfaces

CE Mark:

• EN 13813 - Designation: SR-B2.0



TECHNICAL SPECIFICATIONS



FIELD OF APPLICATION



APPLICATIONS



Description

RICRETE 1C is a ready-to-use mono-component liquid adhesion promoter based on hybrid resins in aqueous dispersion with special natural fillers.

Applied by brush or roller on a smooth, glossy and non-absorbent surface RICRETE 1C it hardens rapidly forming a compact, rough and very adherent film on the substrate.

The presence of natural fillers in the formulation facilitates the adhesion of the products applied subsequently, especially in case of thick coatings.

For thin-layer applications, for which a coarse surface would produce an unpleasant effect, there is a specific version for this product without chippings: RICRETE 1C SQ (see Technical Sheet).

For applications outdoors or on dry surfaces that will be constantly exposed to damp conditions, a cross-linking agent – RICRETE 1C/PLUS – is available, which must be added directly to RICRETE 1C in the measure of 10% (refer to the Par. Preparation of the product ► For applications outdoors or on dry surfaces that will be constantly exposed to damp conditions).

CE Mark

► EN 13813

RICRETE 1C complies with the principles envisaged in the EN 13813 standard (“Screed material and floor screeds - Screed materials: Properties and requirements”) with the following designation:

→ SR-B2.0

- Synthetic resin screed (SR)
- Adhesion Strength: 2,7 MPa (B2,0)

Colour

RICRETE 1C is very pale blue. Once dry, the product is semi-transparent.

Field of application

RICRETE 1C is used as an adhesion primer before applying either self-leveling or skim coat mortars with cementitious adhesives on glossy and non-absorbent substrates such as:

- glazed ceramic coatings;
- stone coatings;
- Rigid PVC and other plastics (but PE e PTFE);
- linoleum;
- resin coatings (water or solvent based)

RICRETE 1C can also be used as an adhesion primer on concrete and on non-absorbent and moisture sensitive substrates, such as:

- wood;
- gypsum;
- anhydrite.

► Typical applications of RICRETE 1C are:

→ the preparation of tiled surfaces (with glazed ceramic, porcelain stoneware, stone) or resin for the over-application of smoothing compounds (with a trowel or self-leveling);

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- the preparation of tiled surfaces (with glazed ceramic, porcelain stoneware, stone) or resin for bonding tiles with cementitious adhesives;
 - the surface treatment of chipboard or wood panels for the subsequent application of moisture protection products.
 - ▶ The product can also be used on heated screeds.
 - ▶ RICRETE 1C is suitable for indoor use and only on dry surfaces.
- For use outdoors or on surfaces that will be in continuous contact with moisture, a special cross-linking agent must be added to RICRETE 1C: RICRETE 1C / PLUS (see in addition to the "Product preparation" chapter).

Advantages

- RICRETE 1C is one-component and easy to apply without special equipment.
- RICRETE 1C is a water-based product that is easy to wash off and remove from surfaces before it cures.
- RICRETE 1C is almost odorless.
- RICRETE 1C allows the aesthetic coating of any glossy and non-absorbent surface without having to be roughened.
- By adding RICRETE 1C / PLUS it is possible to use RICRETE 1C even in humid environments or outdoors.

General preparation of the laying support

the substrate to be treated must be dry, clean and free of oil, grease, wax, residues of glue, paint and other loose material;

- If necessary, wash with STRIPPER or STRIPPER PLUS (see Technical Data Sheets) and rinse with extreme care to completely remove traces of grease, oil or wax.

Wait for the surface to dry before proceeding.

- Check that the cleansing or dewaxing treatments have taken effect and - if necessary - repeat them.
- LINOLEUM or RESIN surfaces need light sanding and careful dust removal.

In case of subsequent washing, wait until the surface is dry before proceeding with the application of RICRETE 1C.

Preparing the product

- ▶ For indoor applications and on permanently dry surfaces:

- The product is ready for use. Do not dilute with water or other solvents.
- Before use, homogenize the product well in the bucket;

The presence on the bottom of soft and easily dispersible sediment is to be considered normal.

- ▶ For outdoor applications or on surfaces that will be in continuous contact with moisture

- Homogenize the product well in the jar by dispersing the charges deposited on the bottom.
- Add 10% by weight of RICRETE 1C / PLUS to RICRETE 1C and mix until the latter is completely incorporated.
- The addition of RICRETE 1C / PLUS causes the product to spontaneously harden over time due to the action of the additive.

Apply the mixture within 30 min at + 23 ° C.

Beyond this time there will be an increase in viscosity and the formation of lumps and the product will no longer be usable.

Application of the product

- ▶ Application

- The ambient and substrate temperature cannot be lower than + 1 ° C.
- The substrate must be dry.
- Apply with a short-haired roller in a single coat, taking care to distribute the product evenly.
- Never dilute the product with either water or other solvents.

- ▶ Product maturation and subsequent applications

- Before proceeding with the application of subsequent coatings on RICRETE 1C wait until it is completely dry and hardened.
- The drying time of the product depends on the ambient temperature and the substrate.

Average maturation time at + 23 ° C and 50% RH:

→ RICRETE 1C alone: about 3 hours.

→ RICRETE 1C + 10% of RICRETE 1C / PLUS: about 5 hours.

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- Avoid the deposit of dust on RICRETE 1C during the hardening phase as this reduces the adhesion of the subsequent coating.

Consumption

TYPE OF APPLICATION	minimum consumption	maximum consumption	UoM	DILUTION
RICRETE 1C pure	0,12	0,15	kg/m ²	Do not dilute.
RICRETE 1C + 10% RICRETE 1C/PLUS*	0,13	0,16	kg/m ²	Do not dilute.

* the added product of RICRETE 1C / PLUS is slightly more viscous and structured, which justifies the slightly higher consumption.

Cleaning of tools

- Wet product: clean with water (including a power wash).
- Hardened product: remove mechanically, use special paint strippers (GEL STRIPPER or FLUID STRIPPER) or athermal gun.

Useful application tips

- Apply at temperatures between +1°C and +35°C.
- Outdoors or on surfaces that will be in continuous contact with moisture, use RICRETE 1C only after mixing with 10% of RICRETE 1C / PLUS.
- RICRETE 1C is not suitable for application on permanently damp, wet or rising damp substrates.
- RICRETE 1C is not suitable for use in the swimming pool.
- Do not mix with other substances or dilute with water or solvents.
- Do not walk on the treated surface before the product has completely hardened, that is, within 2 - 3 hours of application.
- Read the Safety Data Sheet carefully before using the product.

Technical data

► PRODUCT IDENTIFICATION DATA	UoM	value
Appearance	-	Homogeneous blue paste (not covering)
Density at 23°C, EN ISO 2811-1	kg/L	1,18 ± 0,03
pH (potentiometric method) at 23°C, ISO 976	-	9,0 ± 0,4
Brookfield apparent dynamic viscosity (23°C / 50% R.H. ASTM#5 spindle, 20 rpm), EN ISO 2555	mPa•s	10.000 ± 2.000
Dry residue (at 125°C, 1 hour), ISO 3251	-	(54,3 ± 0,5)%
Maximum grain size, EN 933-1	mm	0,3

► APPLICATION DATA AND FINAL PERFORMANCES	UoM	Value
Minimum application temperature	°C	+1
Minimum waiting time for subsequent overcoating, RICRETE 1C pure at + 5 ° C 50% RH	hours	8
Minimum waiting time for subsequent overcoating, RICRETE 1C pure at +23°C 50%UR	hours	3
Minimum waiting time for subsequent overcoating, RICRETE 1C + 10% RICRETE 1C/PLUS at +5°C 50%UR	hours	12
Minimum waiting time for subsequent overcoating, RICRETE 1C + 10% RICRETE 1C/PLUS at +23°C 50%UR	hours	5
Pull-off test resistance from glazed ceramic, after 7 days + 23 ° C / 50% RH, ASTM D4541	MPa	7,9 ± 0,4
Pull-off test resistance from porcelain stoneware, after 7 days + 23 ° C / 50% RH, ASTM D4541	MPa	15,9 ± 0,4
Pull-off test resistance from clinker, after 7 days + 23 ° C / 50% RH, ASTM D4541	MPa	6,6 ± 0,4
Pull-off test resistance from concrete, after 7 days + 23 ° C / 50% RH, ASTM D4541	MPa	> 2,5 (cohesive failure)

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► APPLICATION DATA AND FINAL PERFORMANCES	UoM	Value
Pull-off test resistance from linoleum, 7 days + 23 ° C / 50% RH, ASTM D4541	MPa	2,1 ± 0,1 of concrete)
Pull-off test resistance from transparent epoxy resin, after 7 days + 23 ° C / 50% RH, ASTM D4541	MPa	5,4 ± 0,2
Pull-off test resistance from polyurethane resin, after 7 days + 23 ° C / 50% RH, ASTM D4541	MPa	4,5 ± 0,2

► TECHNICAL DATA IN CONFORMITY TO EN 13813	UoM	Value
Bond strength, EN 13892-8	MPa	2,7 ± 0,2 (cohesive failure of 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 +5°C and +30°C.
- Protect the product against frost.

Packages

VARIANT	PACKAGE	ADR	PACKAGES FOR PALLETS	COMPONENTS
-	jug - 1 kg	NO	-	
-	Plastic bucket - 4 kg	NO	120- bucket	
Additive PLUS (1)	Tin - 1 kg			
Additive PLUS (2)	Metal bucket - 5 kg			

legend

NO = NON DANGEROUS goods

(1): Additive for using RICRETE 1C (and RICRETE 1C SQ) in conditions of continuous contact with humidity.

(2): Additive for using RICRETE 1C and (RICRETE 1C SQ) in conditions of continuous contact with humidity.

LEGAL NOTES

Advice on how to use our products corresponds to the current state of our knowledge and does not involve the assumption of any guarantee and / or responsibility for the final result of the work. They do not refore exempt the customer from the responsibility of verifying the suitability of the products for the use and the prefixed purposes through preventive tests. The website www.nordresine.com contains the latest revision of this datasheet.

EDITION

Release date: 11.01.2013

Revisione: 26.07.2019