

# RICRETE 1C

Rough-effect adhesion super-primer for applying coatings to nonabsorbent or glossy surfaces

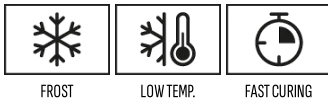


## CE marking:

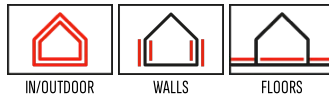
→ EN 13813 • Designation: SR-B2,0



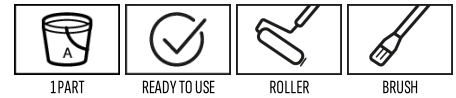
### TECHNICAL FEATURES



### FIELD OF APPLICATION



### APPLICATIONS



## Description

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

Applied by brush or roller on a smooth, shiny and non-absorbent surface RICRETE 1C it hardens rapidly forming a compact, rough film that is very tight to the backing.

The presence of natural grit in the formulation facilitates the adhesion of the products applied subsequently, especially if they are thick coatings.

For thin layer applications, where surface roughness is an unwelcome effect, there is a specific version of this grit-free product: RICRETE 1C SQ (see Data Sheet).

## CE Marking

### ► 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 (SR) based screed.
- Bond strength: 2.7 MPa (B2.0).

## Colour

RICRETE 1C is very soft blue. The product applied once dry is semi-transparent.

## Field of application

RICRETE 1C is used as an adhesion promoter for shavings, paints, mortars, resin coatings and adhesives of all types on glossy and non-absorbent substrates such as:

- glazed ceramic cladding;
- stone cladding;
- rigid PVC and other plastics (except PE and PTFE);
- linoleum;
- Resin coatings (water-based or solvent-based).

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

- wood (including chipboard, MDF and OSB);
- chalk;
- anhydrite.

► Typical applications of RICRETE 1C are:

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- the preparation of tiled surfaces (with glazed ceramic, porcelain stoneware, stone) or resin-coated surfaces for the overapplication of skim coats (trowel or self-leveling);
- the preparation of tiled surfaces (with glazed ceramic, porcelain stoneware, stone) or resin-coated surfaces for bonding tiles with cementitious adhesives;
- the surface treatment of chipboard or wood panels for subsequent application of moisture protection products;
- the surface treatment of plasters, both interior and exterior, even in the presence of thin-film paints or coatings.

► The product can also be used on heating screeds.

For outdoor use or on surfaces that will be in continuous contact with moisture, a special cross-linking agent must be added to RICRETE 1C/PLUS (see the chapter "Product preparation" below).

## 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 lattices.
- RICRETE 1C is almost odorless.
- RICRETE 1C allows the aesthetic coating of any glossy and non-absorbent surface without having to be roughened.
- Through the addition of RICRETE 1C/PLUS, it is possible to use RICRETE 1C even in humid environments.

## General preparation of the laying surface

- The substrate to be treated must be dry, clean, free from oils, greases, waxes, glue residues, paints and other removable parts.
  - The substrate, including any thin-film finishes, must be well adhered to the underlying structure.
  - If necessary, wash with STRIPPER or STRIPPER PLUS (see Data Sheets) and rinse very carefully to completely remove traces of grease, oils or waxes.
- Wait until the surface is dry before proceeding.
- Check that the cleansing or dewaxing treatments have had an effect and – if necessary – repeat them.
  - LINOLEUM or RESIN surfaces need light sanding and careful dedusting.
- In case of subsequent washing, wait until the surface is dry before applying RICRETE 1C.

## Product preparation

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

► *For applications on surfaces that will be in continuous contact with moisture*

- Homogenize the product well in the jar by dispersing the fillers 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 harden spontaneously over time due to the action of the additive.

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

Beyond this time an increase in viscosity and lumping will be observed and the product will no longer be usable.

## Product application

► *Installation*

- The ambient temperature and the installation substrate must not be lower than +1°C.
- The substrate must be dry.

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- Apply with a short-haired roller in a single coat, taking care to distribute the product evenly.
- Never dilute the product with water or other solvents.

## ► Maturation of the product 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: approx. 5 hours.

- Avoid dust depositing on RICRETE 1C during curing as this reduces the adhesion of the subsequent coating.

## Consumption

| type of application              | minimum consumption | maximum consumption | u.m.              | notes |
|----------------------------------|---------------------|---------------------|-------------------|-------|
| RECRETE 1C pure                  | 0,12                | 0,15                | kg/m <sup>2</sup> | (1)   |
| RECRETE 1C + 10% RECRETE 1C/PLUS | 0,13                | 0,16                | kg/m <sup>2</sup> | (2)   |

(1) Do not dilute with water or solvents.

(2) Do not dilute with water or solvents. The product with RICRETE 1C/PLUS added is slightly more viscous and textured: this justifies the slightly higher consumption.

## Tool cleaning

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

## Useful tips for laying

- Apply at a temperature between +1°C and +35°C.
- 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 swimming pools.
- Do not mix with other substances, or dilute with water or solvents.
- Do not walk on the treated surface before the product has fully hardened, i.e. within 2 – 3 hours of application.
- Read the Safety Data Sheet carefully before use.

## Technical Data

| ► PRODUCT IDENTIFICATION DATA                                                              |       | value                               |
|--------------------------------------------------------------------------------------------|-------|-------------------------------------|
| Appearance                                                                                 | -     | Blue homogeneous paste (non-opaque) |
| 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% RH; ASTM#5 spindle, 20 rpm), EN ISO 2555 | mPa·s | 10.000 ± 2.000                      |
| Dry residue (125°C, 1 hour), ISO 3251                                                      | -     | (54,3 ± 0,5)%                       |
| Maximum grain size, EN 933-1                                                               | Mm    | 0,3                                 |

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## ► APPLICATION DATA AND FINAL PERFORMANCE

|                                                                                                      |       | value                             |
|------------------------------------------------------------------------------------------------------|-------|-----------------------------------|
| Minimum application temperature                                                                      | °C    | +1                                |
| Minimum waiting time for subsequent overapplication, pure 1C RECREATE at +5°C 50%RH                  | Hours | 8                                 |
| Minimum waiting time for subsequent overapplication, pure 1C RECRE at +23°C 50%RH                    | Hours | 3                                 |
| Minimum waiting time for subsequent overapplication, RICRETE 1C + 10% RICRETE 1C/PLUS at +5°C 50%RH  | Hours | 12                                |
| Minimum waiting time for subsequent overapplication, RICRETE 1C + 10% RICRETE 1C/PLUS at +23°C 50%RH | Hours | 5                                 |
| 7-day pull-off test resistance +23°C/50%RH, ASTM D4541                                               | Mpa   | 7.9 ± 0.4                         |
| Tensile release resistance (pull-off test) from porcelain stoneware, 7 days +23°C/50%RH, ASTM D4541  | Mpa   | 15,9 ± 0,4                        |
| 7-day pull-off test +23°C/50%RH, ASTM D4541                                                          | Mpa   | 6.6 ± 0.4                         |
| Pull-off test resistance from concrete, 7 days +23°C/50%RH, ASTM D4541                               | Mpa   | > 2,5 (concrete cohesive failure) |
| Resistance to pull-off from linoleum, 7 days +23°C/50%RH, ASTM D4541                                 | Mpa   | 2,1 ± 0,1                         |
| Pull-off resistance from transparent epoxy resin, 7 days +23°C/50%RH, ASTM D4541                     | Mpa   | 5.4 ± 0.2                         |
| Resistance to pull-off test from polyurethane resin, 7 days +23°C/50%RH, ASTM D4541                  | Mpa   | 4.5 ± 0.2                         |

## ► TECHNICAL DATA IN ACCORDANCE WITH EN 13813

|                           |     | value                                  |
|---------------------------|-----|----------------------------------------|
| Bond strength, EN 13892-8 | Mpa | 2.7 ± 0.2 (Substrate cohesive failure) |

### Product storage

- 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.

### Packaging

| VARIANT       | PACKAGE     | ADR | PACKAGE / PALLET | COMPONENTS | NOTES |
|---------------|-------------|-----|------------------|------------|-------|
| -             | tin - 1 kg  | NO  | -                | -          | -     |
| -             | drum - 4 kg | NO  | 120 buckets      | -          | -     |
| PLUS additive | can - 1 kg  |     |                  |            | (1)   |
| PLUS additive | tin - 5 kg  |     |                  |            | (1)   |

### NOTES:

(1) Also available in a lower roughness version (RICRETE 1C-SQ) useful in case of direct painting.

(2) Additive for the use of RICRETE 1C (and RICRETE 1C SQ) in conditions of continuous contact with moisture.

### ADR legend:

NO = NON-DANGEROUS goods

P\* = DANGEROUS goods packed in limited quantities (packed as per ADR Chapter 3.4)

SI = DANGEROUS Goods

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## LEGAL NOTES

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It is the user's responsibility to verify in advance, also through suitable tests, the suitability of the product for the intended use, compatibility with the substrate, appropriate environmental application conditions, and the execution of the installation according to workmanship standards, assuming all liability arising from the use of the product and the final result of the works.

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## EDITION

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