

Technical Data Sheet

StoCryl RB

Coating, crack-bridging



Characteristics

Area of application

- as a crack-bridging coating for the protection and coloured design of concrete structures at risk of cracking (concrete and reinforced concrete)

Properties

- structurally and dynamically crack-bridging
- prevents the ingress of water and harmful substances dissolved in water
- regulates the moisture balance
- increases electrical resistivity
- very good adhesive bond
- good carbon dioxide impermeability (S_d value for $CO_2 > 50$ m)
- good water vapour diffusion capacity (S_d value for $H_2O < 4$ m)
- water-dilutable

Information/notes

- product is in accordance with EN 1504-2
- not suitable for horizontal surfaces in contact with water
- not suitable for surfaces subject to foot or vehicle traffic
- surface protection system OS 5a (OS D II)
- component of the StoCretec system in accordance with the DAfStb (German) Repair Guideline 2001-10
- for the coloured decoration of concrete areas as part of the StoCretec concrete repair system in building structures

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1,3 - 1,5 g/cm ³	
Diffusion-equivalent air layer thickness	EN ISO 7783	1,4 m	
Water permeability rate w	EN 1062-1	< 0,1 kg/(m ² h ^{0.5})	
Water vapour diffusion-equivalent air layer thickness μ	EN ISO 7783	2.200	average value
Gloss	EN 1062-1	G3 - Matt	
Dry layer thickness	EN 1062-1	410 μ m	E5 > 400
Grain size	EN 1062-1	< 100 μ m	S1 fine

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The characteristic values stated are average values or approximate values. Due to the natural raw materials in our products, the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended use.

Substrate

Requirements

The substrate must be load-bearing and free from native and foreign release agents.
Remove less strong layers and laitance.

Dry in accordance with the definition of the DAfStb (German) Repair Guideline 2001-10, but depending on the compressive strength class.
The moisture content may not exceed 4 CM per cent for concrete qualities up to C30/37 and max. 3 CM per cent for C35/45 concrete, measured with a calcium carbide meter.

Preparations

Prepare the substrate using a suitable mechanical process, such as abrasive blasting or high-pressure water blasting (> 800 bar).
Open pores and blow-holes sufficiently.

Application

Application temperature

Lowest application temperature: +8 °C
Highest application temperature: +30 °C

Material preparation

Ready-to-use, stir thoroughly before application.

Consumption

Type of application	Approx. consumption
as a coating	0,6 - 0,8 l/m ²

Material consumption depends on the application, substrate, and consistency, among other factors. The stated consumption values are only to be used as a guide. If required, determine precise consumption values on the basis of the specific project.

Coating build-up

Build-up with filler and levelling coat
1) Substrate preparation
2) Filler and levelling coat of StoCrete TF 200 or StoCrete TF 204
3) Coating of StoCryl RB in 3 application cycles:
Application cycle 1: Apply StoCryl RB, diluted with approx. 2 wt% water
Application cycle 2: Apply StoCryl RB undiluted
Application cycle 3: Apply StoCryl RB undiluted

Build-up without filler and levelling coat
1) Substrate preparation

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2) Prime coating of StoCryl GQ

For detailed information regarding priming, please refer to the Primers/Fillers overview and the relevant Technical Data Sheet.

3) Coating of StoCryl RB in 3 application cycles:

Application cycle 1: Apply StoCryl RB, diluted with approx. 2 wt% water

Application cycle 2: Apply StoCryl RB undiluted

Application cycle 3: Apply StoCryl RB undiluted

Application

Build-up with filler and levelling coat:

1) Substrate preparation

2) Filler and levelling coat of StoCrete TF 200 or StoCrete TF 204

Apply StoCrete TF 200 or StoCrete TF 204 fairing coat in accordance with the relevant Technical Data Sheet.

3) Coating of StoCryl RB in 3 application cycles:

Application cycle 1:

Stir StoCryl RB thoroughly, dilute with max 2 % water, stir well once again, and then apply.

Application cycle 2:

After thorough stirring, apply StoCryl RB undiluted.

Application cycle 3:

After thorough stirring, apply StoCryl RB undiluted.

Build-up without filler and levelling coat:

1) Prepare the substrate using a suitable mechanical process.

2) Prime coating

Apply the primer, e.g. StoCryl GQ to the prepared concrete substrate using a brush or roller, depending on the absorption capacity of the substrate.

3) Coating of StoCryl RB in 3 application cycles:

Application cycle 1:

Stir StoCryl RB thoroughly, dilute with max 2 % water, stir well once again, and then apply.

Application cycle 2:

After thorough stirring, apply StoCryl RB undiluted.

Application cycle 3:

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After thorough stirring, apply StoCryl RB undiluted.

If applying the material manually, use a paint brush or roller.

If applying the material by machine, use the following:

By airless sprayer:

Nozzle size: 0.019 - 0.021"

Nozzle size: 0.53 - 0.66 mm

Spray angle: 40° - 50°

Pressure: approx. 120 - 210 bar

Hose length 15 m, max. 100 m - continuously supplied paint roller applicator up to 140 m

Addition of water: max. 5 %

If delivered in large containers, it is not necessary to add water (ready-to-use).

Inomat M8:

Hose diameter - Ø 1 "

Device setting level 6 (for a 20 m hose, max. hose length is 20 m. Note: Apply undiluted using a continuously supplied paint roller applicator.)

Drying, curing, ready for next coat

Drying and waiting times:

Time until the area is no longer sensitive to rain and humidity:

At +8 °C: after 8 h

At +20 °C: after 5 h

At +30 °C: after 3 h

Until application of the next layer:

At +8 °C: after 24 h

At +20 °C: after 12 h

At +30 °C: after 6 h

Until bond strength is tested:

At +8 °C: after 10 days

At +20 °C: after 7 days

At +30 °C: after 4 days

Cleaning the tools

Clean with water after use.

Collect cleaning water/rinsing water and dispose of it professionally.

Remove bonded material by mechanical means.

Notes, recommendations, special information, miscellaneous

The declaration(s) of performance can be obtained from the StoCretec

Technisches InfoCenter

General application instructions are available at www.stocretec.de and in the notes

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of the latest Technical Manual.

The minimum material consumption is defined by the tested system!

Protective colloids/streaking:

If there is premature contact with water (condensation or rain) after application, water-soluble protective colloids may be released from the coating film and appear as glossy streaks on the coating surface. Because the processing aids remain water-soluble, subsequent contact with water (e.g. due to thawing, rain) washes them off as a matter of course.

This does not impair the quality of the dried coating.

Delivery

Colour shade white, tintable in accordance with the StoColor System, RAL colour fan

Packaging Pail

Article number	Name	Container
00430-012	StoCryl RB tinted	15 l pail
00430-001	StoCryl RB white	15 l pail

Storage

Storage conditions Store in dry and frost-free conditions. Protect from direct sunlight.

Storage life The quality of the product in its original container is guaranteed until the maximum storage life has expired. The storage life date can be deduced from the batch number of the container.
Batch number explanation:
Number 1 = the last number of year, numbers 2 + 3 = a calendar week
i.e.: 6450013223 – storage life until week 45 of the year 2026

Identification

Product group Coating

GISCODE BSW50

Safety This product is subject to compulsory labelling in accordance with the current EU regulation.

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Observe the Safety Data Sheet!
Safety instructions refer to the ready-to-use, unapplied product.

Special notes

The information in this Technical Data Sheet serves to ensure the product's intended use, or its suitability for use, and is based on our findings and experience. Users are nevertheless responsible for establishing the product's suitability and use.
Applications not specifically mentioned in this Technical Data Sheet are permissible only after prior consultation. Where no approval is given, such applications are at the user's own risk. This applies in particular when the product is used in combination with other products.

When a new Technical Data Sheet is published, all previous Technical Data Sheets are no longer valid. The latest version is available on the Internet.

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