

Technical Data Sheet

StoCryl EF

Coating, elastic



Characteristics

Area of application

- as an elastic coating on concrete at a risk of cracking
- as a coating on existing crack-bridging coatings

Properties

- 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

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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	0,78 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	4.600	average value
Gloss	EN 1062-1	G3 - Matt	

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

Requirements on the substrate:

Concrete:

The concrete substrate must be load-bearing and free from native and foreign

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substances that could interfere with adhesion, as well as from corrosion-promoting components (e.g. chlorides).

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.

Existing coatings:

- load-bearing
- free from release agents
- compatibility: cross-cut value ≤ 1 in accordance with ISO 2409

Preparations

Concrete:
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.

Existing coating:
Clean

Application

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

Material preparation Stir the material until it is homogeneous.

Consumption	Type of application	Approx. consumption
	as coating (2 layers)	0,3 - 0,4 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 Concrete without fairing coat:

- 1) Substrate preparation
- 2) StoCryl GW 100 or StoCryl GQ
- 3) StoCryl EF diluted with approx. 5 wt% water
- 4) StoCryl EF

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	Concrete with fairing coat: 1) Substrate preparation 2) StoCrete TF 200 or StoCrete TF 204 3) StoCryl EF diluted with approx. 5 wt% water 4) StoCryl EF Existing coating 1) Substrate preparation 2) StoCryl GW 200 or StoCryl GQ 3) Optional: filler and levelling coat of StoCryl SP or StoCryl ZB 4) StoCryl EF diluted with approx. 5 wt% water 5) StoCryl EF
Application	StoCryl EF can be applied using the following tools - Paint brush - Roller - Airless sprayer
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.

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.

Hiding power:

Intense colour shades, e.g. red, orange, or yellow tints, may exhibit reduced hiding power due to the pigments used; additional layers may be required.

The hiding power of the colour shades mentioned above can be increased by pre-coating the surface with a colour shade with better hiding power that is matched to the selected colour shade.

Delivery

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

Packaging Pail

Article number	Name	Container
02233-001	StoCryl EF white	15 l pail
02233-005	StoCryl EF tinted	15 l pail

Storage

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

Storage life In the original container until ... (see packaging).

Identification

Product group Coating

GISCODE BSW50

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

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regulation.
Observe the Safety Data Sheet!

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.

StoCretec GmbH
Gutenbergstr. 6
D-65830 Kriftel

Tel.: +49 6192 401-104
stocretec@sto.com
www.stocretec.de