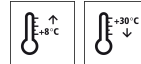


Technical Data Sheet

StoCryl EF

Coating, elastic



Characteristics

- Area of application**
- as elastic coating on concrete at a risk of cracking
 - as 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 (sd value for carbon dioxide > 50 m)
 - good water vapour permeability (sd value for water vapour < 4 m)
 - water-dilutable

- Information/notes**
- product is in accordance with EN 1504-2
 - not for horizontal surfaces in contact with water
 - not for surfaces subject to foot or vehicle traffic

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	0.78 m	
Water permeability rate w	EN 1062 -3	< 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	Matt	G3

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

Technical Data Sheet

StoCryl EF

substances that have a separating action, as well as from corrosion-promoting components (e.g. chlorides).

Remove weak layers and laitance.

Dry in accordance with the definition of the DAfStb (German) Repair Guideline 2001-10, but depending on the compressive strength class. Residual moisture may amount to max. 4 wt% for concrete in strength classes up to C30/37 and max. 3 wt% for C35/45 concrete, measured with a calcium carbide meter.

Existing coatings:

- load-bearing
- free from substances that have a separating action
- 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 in 2 layers

0.3 - 0.4

l/m²

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

Concrete with fairing coat:

- 1) Substrate preparation

Technical Data Sheet

StoCryl EF

- 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:
Until 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 immediately after use; hardened material can only be removed mechanically.

Notes, recommendations, special information, miscellaneous

The Declaration(s) of Conformity can be obtained from the StoCretec Technisches InfoCenter
General application instructions can be found at www.stocretec.de (Products) and in the latest issue of the "Technical Data Sheets" manual, in the appendix.

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

Technical Data Sheet

StoCryl EF

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

Safety For further information on handling the product, its storage and disposal, see EU Safety Data Sheet.
The EU Safety Data Sheet is available for the professional user.

Technical Data Sheet

StoCryl EF

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
Fax: +49 6192 401-105
stocretec@sto.com
www.stocretec.de