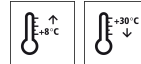


Technical Data Sheet

StoCryl V 200

Coating, matt



Characteristics

Area of application • as rigid coating for the protection and coloured decoration of concrete

Properties

- prevents the ingress of water and harmful substances dissolved in water
- regulates the moisture balance
- increases electrical resistivity
- good penetration capacity
- 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

Appearance • matt (G3) in accordance with EN 1062-1

Information/notes

- product is in accordance with EN 1504-2
- not for horizontal surfaces in contact with water
- not for surfaces subject to foot and vehicle traffic
- not for rooms that are used for purposes similar to living quarters

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1.4 - 1.5 g/cm ³	
Diffusion-equivalent air layer thickness	EN ISO 7783-2	1.2 m	Class I
Water permeability rate w	EN 1062-1	< 0.1 kgm ² h	
Water vapour diffusion-equivalent air layer thickness μ	EN ISO 7783-2	6,700	
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

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Requirements

Requirements on the substrate:

The substrate must be dry, load-bearing, and free from native and foreign substances that have a separating action.

Remove less solid 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.

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 coating	0.30 - 0.40	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

Coating build-up without fine filler

- 1) Substrate preparation
- 2) Prime coating of StoCryl GW 100, StoCryl GW 200, StoCryl HP 100, or StoCryl GQ
- 3) Coating of StoCryl V 200 diluted with approx. 5 wt% water
- 4) Coating of StoCryl V 200 undiluted

Coating build-up with fine filler

- 1) Substrate preparation
- 2) Fine filling using StoCrete FM, StoCrete KM, StoCrete TF 200, or StoCrete TF 204
- 3) Coating of StoCryl V 200 diluted with approx. 5 wt% water
- 4) Coating of StoCryl V 200 undiluted

Application

Manually using a brush and roller, or by machine using the airless spray method

Coating build-up without fine filler:

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1) Substrate preparation

2) Prime coating

Prime with StoCryl GW 100, StoCryl GW 200, StoCryl HP 100, or StoCryl GQ.

For detailed information regarding the primers, please refer to the Primers/Fillers overview (appendix in the manual of technical data sheets) and the relevant Technical Data Sheet.

3) Coating of StoCryl V 200 diluted with approx. 5 wt% water

Thoroughly stir the StoCryl V 200 coating, dilute with max. 5 % water, then mix well once again.

Consumption of StoCryl V 200: approx. 0.15 - 0.2 l/m²

4) Coating of StoCryl V 200 undiluted

Stir the StoCryl V 200 coating thoroughly and apply undiluted.

Consumption of StoCryl V 200: approx. 0.15 - 0.2 l/m²

Coating build-up with fine filler:

1) Substrate preparation

2) Fine filling using StoCrete FM, StoCrete KM, StoCrete TF 200, or StoCrete TF 204

For detailed information regarding the fine fillers, please refer to the relevant Technical Data Sheet.

3) Coating of StoCryl V 200 diluted with approx. 5 wt% water

Thoroughly stir the StoCryl V 200 coating, dilute with max. 5 % water, then mix well once again.

Consumption of StoCryl V 200: approx. 0.15 - 0.2 l/m²

4) Coating of StoCryl V 200 undiluted

Stir the StoCryl V 200 coating thoroughly and apply undiluted.

Consumption of StoCryl V 200: approx. 0.15 - 0.2 l/m²

Specifications for machine application:

Airless:

Nozzle size: 0.017 - 0.021"

Nozzle size: 0.49 - 0.53 mm

Spray angle: 40° - 60°

Pressure: 150 - 200 bar

Addition of water: max. 5 %

Note: If delivered in large containers, no addition of water is required (ready-to-use).

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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 6 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 5 h

Until bond strength can be tested:

At +8 °C: after 7 days

At +20 °C: after 5 days

At +30 °C: after 3 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 InfoCentre.

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.

Extender material breakdown:

When coated surfaces are exposed to mechanical stress, e.g. in corridors or access areas, it is possible that for darker, intense colour shades the areas of impact change to a lighter colour. This is due to the natural extenders used.

Even if the product quality and functionality are not affected by this, for aesthetic reasons we recommend using a coating with better binding qualities, e.g. StoCryl V 100, on these exposed surfaces.

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. As 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:

Depending on the selected colour shade, e.g. intense yellow or intense red, differences in hiding power can occur. An extra application cycle can therefore be useful, in addition to the application cycles listed in the "Coating build-up" section of the Technical Data Sheet.

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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

When coated surfaces are exposed to mechanical impact it is possible that for darker, intense colour shades the areas of impact change to a lighter colour. This is due to the natural extenders used. This does not impair the quality and functionality of the product.

Tintable Decentralised tinting is possible in the Sto SalesCentres.

Packaging pail

Article number	Name	Container
01725-001	StoCryl V 200 white	15 l pail
01725-011	StoCryl V 200 tinted	15 l pail

Storage

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

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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