

Technical Data Sheet

StoCryl V 500 G

Coating, matt, with increased encapsulated film protection



Characteristics

- Area of application**
- as a rigid coating for renovating concrete structures (concrete and reinforced concrete)
 - for simple design measures without an additionally required protective function

- Properties**
- prevents the ingress of water and harmful substances dissolved in water
 - regulates the moisture balance
 - very good adhesive bond
 - very good water vapour diffusion permeability (sd value water vapour < 4 m)
 - water-dilutable

- Appearance**
- matt (G3) accordance with EN 1062-1

- Information/notes**
- not suitable for horizontal surfaces in contact with water
 - not suitable for surfaces subject to foot or vehicle traffic
 - not suitable for rooms that are used for purposes similar to living quarters
 - with increased encapsulated film protection

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1,5 - 1,6 g/cm ³	
Diffusion-equivalent air layer thickness	EN ISO 7783	0,23 m	
Water permeability rate w	EN 1062-1	< 0,05 kg/(m ² h ^{0.5})	
Water vapour diffusion-equivalent air layer thickness μ	EN ISO 7783	720	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

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Requirements

Requirements on the substrate:
The substrate must be dry, 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.

Coating build-up

Coating build-up without fairing coat

- 1) Substrate preparation
- 2) Prime coating of StoCryl GW 100, StoCryl GW 200, StoCryl HP 100, or StoCryl GQ
- 3) Sealing coat of StoCryl V 500 G, diluted with water to approx. 5 per cent by weight
- 4) Sealing coat of StoCryl V 500 G, undiluted

Coating build-up with fairing coat

- 1) Substrate preparation
- 2) Fairing coat of StoCrete FM, StoCrete KM, StoCrete TF 200, or StoCrete TF 204
- 3) Sealing coat of StoCryl V 500 G, diluted with water to approx. 5 per cent by weight
- 4) Sealing coat of StoCryl V 500 G, undiluted

Application

Manually using a brush and roller, or by machine using the airless spraying method or with the Inomat XXL

Coating build-up without fairing coat:

- 1) Substrate preparation

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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 and the relevant Technical Data Sheet.

3) Sealing coat of StoCryl V 500 G, diluted with water to approx. 5 per cent by weight

Thoroughly stir the StoCryl V 500 G sealer, dilute with max. 5 % water, then mix well once again. StoCryl V 500 G coverage: approx. 0.2–0.25 l/m²

4) Sealing coat of StoCryl V 500 G, undiluted

Stir the StoCryl V 500 G sealer thoroughly and apply undiluted. StoCryl V 500 G coverage: approx. 0.2–0.25 l/m²

Coating build-up with fairing coat:

1) Substrate preparation

2) Fairing coat of StoCrete FM, StoCrete KM, StoCrete TF 200, or StoCrete TF 204

For detailed information regarding the fairing coat products, please refer to the relevant Technical Data Sheet.

3) Sealing coat with StoCryl V 500 G, diluted with water to approx. 5 per cent by weight. Dilute the StoCryl V 500 G sealer with water to max. 5 % and stir again well. StoCryl V 500 G coverage: approx. 0.2–0.25 l/m²

4) Sealing coat of StoCryl V 500 G, undiluted. Stir the StoCryl V 500 G sealer thoroughly and apply undiluted. StoCryl V 500 G coverage: approx. 0.2–0.25 l/m²

Specifications for machine application:

Airless:

Nozzle size: 0.019 - 0.021"

Nozzle size: 0.49 - 0.53 mm

Spray angle: 40° - 60°

Pressure: 150 - 200 bar

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

Addition of water: max. 5 %

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

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Inomat M8:
Hose size - Ø ¾
Device setting level 4 (for a 10 m hose, max. hose length is 100 m)

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 24 h

At +20 °C: after 12 h

at +30 °C: after 8 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 is 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 after use.
Collect cleaning water/rinsing water and dispose of it professionally.
Remove bonded material by mechanical means.

Notes, recommendations, special information, miscellaneous

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

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

Article number	Name	Container
01825-012	StoCryl V 500 G white ready to use	550 l STOSILO VARIO C
01825-011	StoCryl V 500 G tinted ready to use	550 l STOSILO VARIO C
01825-010	StoCryl V 500 G white	15 l pail
01825-009	StoCryl V 500 G 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

GISCODE BSW50

Safety

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

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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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