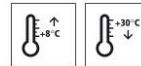


# Technical Data Sheet

## StoCryl V 500

Coating, matt



### 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

### Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1,5 - 1,6 g/cm <sup>3</sup>	
Diffusion-equivalent air layer thickness	EN ISO 7783	0,23 m	
Water permeability rate w	EN 1062-1	< 0,05 kg/(m <sup>2</sup> h <sup>0,5</sup> )	
Water vapour diffusion-equivalent air layer thickness μ	EN ISO 7783	720	average value
Gloss	EN 1062-1	G3 - 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:  
The substrate must be dry, load-bearing, and free from native and foreign release agents.

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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.

<b>Preparations</b>	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.
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### Application

<b>Application temperature</b>	Lowest application temperature: +8 °C Highest application temperature: +30 °C
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<b>Material preparation</b>	Ready-to-use, stir thoroughly before application.
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<b>Consumption</b>	Type of application	Approx. consumption	
	as coating (2 layers)	0,4 - 0,5	l/m <sup>2</sup>
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.			

<b>Coating build-up</b>	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 with StoCryl V 500, diluted with approx. 5 wt% water 4) Sealing with StoCryl V 500, 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 with StoCryl V 500, diluted with approx. 5 wt% water 4) Sealing with StoCryl V 500, undiluted

<b>Application</b>	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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### StoCryl V 500

#### 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 with StoCryl V 500, diluted with approx. 5 wt% water

The StoCryl V 500 sealant is diluted with water to max. 5% and stirred well once again. Consumption of StoCryl V 500: approx. 0.2 - 0.25 l/m<sup>2</sup>

#### 4) Sealing with StoCryl V 500, undiluted

Stir the StoCryl V 500 sealing thoroughly and apply undiluted. Consumption of StoCryl V 500: approx. 0.2 - 0.25 l/m<sup>2</sup>

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 with StoCryl V 500, diluted with water to approx. 5 weight per cent.

Dilute the StoCryl V 500 sealant with water to max. 5% and stir again well. Consumption of StoCryl V 500: approx. 0.2 - 0.25 l/m<sup>2</sup>

#### 4) Sealing with StoCryl V 500, undiluted. Stir the StoCryl V 500 sealant thoroughly and apply undiluted. Consumption of StoCryl V 500: approx. 0.2 - 0.25 l/m<sup>2</sup>

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).

Inomat M8:

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## StoCryl V 500

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

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### 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

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### Cleaning the tools

Clean with water immediately after use. Hardened material can only be removed mechanically.

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### Notes, recommendations, special information, miscellaneous

General application instructions are available at [www.stocretec.de](http://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.

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.

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## StoCryl V 500

### Delivery

<b>Colour shade</b>	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.

<b>Tintable</b>	Decentralised tinting is possible in the Sto SalesCentres.
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<b>Packaging</b>	pail barrel
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	Article number	Name	Container
	01825-003	StoCryl V 500 tinted	15 l pail
	01825-001	StoCryl V 500 white	15 l pail

### Storage

<b>Storage conditions</b>	Store in dry and frost-free conditions. Protect from direct sunlight.
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<b>Storage life</b>	In the original container until ... (see packaging).
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### Identification

<b>Product group</b>	Sealing coat
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<b>GISCODE</b>	BSW50
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<b>Safety</b>	<p>This product is subject to compulsory labelling in accordance with the current EU regulation. Observe the Safety Data Sheet! Safety instructions refer to the ready-to-use, unapplied product.</p> <p>May cause an allergic skin reaction. Avoid breathing vapours. Wear protective gloves. If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash it before reuse. Contents/container to be disposed of through approved disposal contractor or taken to municipal collection point.</p>
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<b>EUH211</b>	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
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## StoCryl V 500

### 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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