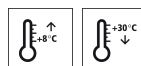


# Technical Data Sheet

## StoCryl V 400

Lasure coating, matt



### Characteristics

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

**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
- lasure

**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	1.2 - 1.4 g/cm <sup>3</sup>	
Diffusion-equivalent air layer thickness	EN ISO 7783-2	0.69 m	
Water permeability rate w	EN 1062 -3	< 0.1 kg/(m <sup>2</sup> h <sup>0.5</sup> )	
Water vapour diffusion-equivalent air layer thickness μ	EN ISO 7783-2	6,900	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

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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 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. 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, e.g. 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.  
Diluted with max. 5 wt% water and mixed well once again

#### Consumption

Type of application

Approx. consumption

as coating

0.3 - 0.4 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.

#### Coating build-up

- 1) Substrate preparation
- 2) Prime coating of StoCryl GW 200
- 3) Base coat of StoCryl V 400 or StoCryl V 450 diluted with max. 5 wt% water
- 4) Lasure coating of StoCryl V 400 diluted with max. 5 wt% water

#### Application

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

1) Substrate preparation

2) Prime coating

Use a brush or roller to prime the prepared concrete substrate with StoCryl GW 200.

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.

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3) Base coat of StoCryl V 400 or StoCryl V 450 diluted with max. 5 wt% water

Note:

Coating of StoCryl V 400 high colour shade intensity,  
Coating of StoCryl V 450 low colour shade intensity

Consumption of StoCryl V 400 or StoCryl V 450: approx. 0.15 - 0.2 l/m<sup>2</sup>

4) Lasure coating of StoCryl V 400 diluted with max. 5 wt% water

Consumption of StoCryl V 400: approx. 0.15 - 0.2 l/m<sup>2</sup>

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

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

Note:

The colour of the substrate helps determine the colour shade visible after application (lasure effect).

Applying StoCryl V 400 directly to the substrate may result in visual inhomogeneities, depending on the absorption capacity. In order to avoid this, we recommend applying a base coat of StoCryl V 450 or, if desired, StoCryl V 100 or StoCryl V 200.

This assures the long-term protective effect of the surface protection system, independent of the amount of StoCryl V 400 used and the desired intensity of the lasure effect.

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#### Drying, curing, ready for next coat

#### Curing 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

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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 InfoCenter

General application instructions can be found at [www.stocretec.de](http://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. 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.

### Delivery

#### Colour shade

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

#### Packaging

Pail

Article number	Name	Container
01727-001	StoCryl V 400 white	15 l pail
01727-011	StoCryl V 400 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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## StoCryl V 400

### 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.

**Sto SEA Pte Ltd**  
159 Sin Ming Road  
#06-02 Amtech Building  
Singapore 575625  
Phone: +65 6453 3080  
Fax : +65 6453 3543  
[info.sg@sto.com](mailto:info.sg@sto.com)  
[www.sto-sea.com](http://www.sto-sea.com)

**Sto SEA Sdn Bhd**  
28, Jalan Rajawali 3  
Bandar Puchong Jaya,  
47170 Selangor, Malaysia  
Phone: +60 3 8080 9066  
Fax: +60 3 8080 9255  
[info.my@sto.com](mailto:info.my@sto.com)  
[www.sto-sea.com](http://www.sto-sea.com)

**Sto SEA Pte Ltd**  
3656/49-52 Green Tower, 16<sup>th</sup> Floor  
Rama IV Rd, Klongton, Klongtoei,  
10110 Bangkok, Thailand  
Phone: +66 2 1684 921 Ext. 230  
Fax: +66 2 1684 999  
[info.sg@sto.com](mailto:info.sg@sto.com)  
[www.sto-sea.com](http://www.sto-sea.com)

**StoCretec GmbH**  
Gutenbergstr. 6  
65830 Kriftel,  
Germany  
Phone: +49 6192 401 104  
Fax: +49 6192 401 105  
[info.sg@sto.com](mailto:info.sg@sto.com)  
[www.sto-sea.com](http://www.sto-sea.com)

\*Product images may differ from the actual product.