

# Technical Data Sheet

## StoCryl V 400

Coating, lasure effect, matt



### Characteristics

#### Area of application

- as a rigid coating for the protection and coloured decoration of concrete structures
- as a decorative, lasure coating in accordance with StoSignature application guidelines

#### 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 ( $S_d$  value for  $CO_2 > 50$  m)
- good water vapour diffusion capacity ( $S_d$  value for  $H_2O < 4$  m)
- water-dilutable

#### Appearance

- matt (G3) accordance with EN 1062-1
- lasure

#### Information/notes

- product is in accordance with EN 1504-2
- not suitable for horizontal surfaces in contact with water
- not suitable 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	0,69 m	
Water permeability rate w	EN 1062-1	< 0,1 kg/(m <sup>2</sup> h <sup>0,5</sup> )	
Water vapour diffusion-equivalent air layer thickness $\mu$	EN ISO 7783	6.900	average value
Gloss	EN 1062-1	G3 - Matt	

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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.

<b>Substrate</b>							
<b>Requirements</b>	<p>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.</p> <p>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.</p>						
<b>Preparations</b>	<p>Prepare the substrate using a suitable mechanical process, e.g. high-pressure water blasting (&gt; 800 bar). Open pores and blow-holes sufficiently.</p>						
<b>Application</b>							
<b>Application temperature</b>	<p>Lowest application temperature: +8 °C Highest application temperature: +30 °C</p>						
<b>Material preparation</b>	<p>Ready-to-use, stir thoroughly before application. Diluted with max. 5 wt% water and mixed well once again</p>						
<b>Consumption</b>	<table border="1"> <thead> <tr> <th>Type of application</th> <th colspan="2">Approx. consumption</th> </tr> </thead> <tbody> <tr> <td>as a coating</td> <td>0,3 - 0,4</td> <td>l/m<sup>2</sup></td> </tr> </tbody> </table>	Type of application	Approx. consumption		as a coating	0,3 - 0,4	l/m <sup>2</sup>
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as a coating	0,3 - 0,4	l/m <sup>2</sup>					
<p>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.</p>							
<b>Coating build-up</b>	<ol style="list-style-type: none"> <li>1) Substrate preparation</li> <li>2) Prime coating of StoCryl GW 200</li> <li>3) Base coat of StoCryl V 400 or StoCryl V 450 diluted with max. 5 wt% water</li> <li>4) Lasure coating of StoCryl V 400 diluted with max. 5 wt% water</li> </ol>						
<b>Application</b>	<p>Manually using a brush and roller, or by machine using the airless spray method</p>						

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#### 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 and the relevant Technical Data Sheet.

#### 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

Time until the area is 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 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

The declaration(s) of performance can be obtained from the StoCretec Technisches InfoCenter

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.

#### Delivery

#### Colour shade

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

#### Packaging

Pail

Article number

Name

Container

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	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

**GISCODE** BSW50

**Safety** This product is not subject to compulsory labelling in accordance with the current EC 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.

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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