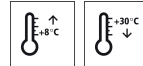


## Technical data sheet

### StoCryl V 100

Coating, mid sheen



#### Characteristics

##### Areas of application

- as rigid coating for the protection and coloured design of load-bearing structures (concrete and reinforced concrete)

##### Properties

- prevents water and harmful substances dissolved in water from penetrating
- regulates the moisture balance
- good penetration capacity
- increases electrical resistance
- 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

- mid-sheen (G2) in accordance with EN 1062-1

##### Information/notes

- product is in accordance with EN 1504-2
- not for horizontal water-loaded surfaces
- not for surfaces subject to foot or vehicle traffic
- surface protection system OS 2 (OS B), OS 4 (OS C)
- for colour design of concrete surfaces within the StoCretec concrete restoration system in building construction
- not for rooms that are used for purposes similar to living quarters

#### Technical data

Criterion	Standard / test regulation	Value/ Unit	Notes
Density	EN ISO 2811	1.25 - 1.45 g/cm <sup>3</sup>	
Diffusion-equivalent air layer thickness	EN ISO 7783-2	1.3 m	V2 medium
Water permeability rate w	EN 1062 -3	< 0.1 kg/(m <sup>2</sup> *h <sup>0,5</sup> )	
Water vapour diffusion resistance factor μ	EN ISO 7783-2	10,000	Average value
Gloss	EN 1062-1	Mid sheen	G2

The characteristic values stated are average values or approx. values. We use natural raw materials in our products, which means that 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:

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The substrate must be dry, load-bearing and free from characteristic or dissimilar separating substances.  
Less solid layers and slurry accumulations must be removed.

Dry in accordance with the definition of the restoration guideline 2001-10, depending on the concrete quality, however. The residual moisture may amount to max. 4 weight per cent in case of concrete qualities of up to C30/37 and max. 3 weight per cent in case of C35/45 concrete, measured with the CM device.

#### Preparations

The substrate must be prepared by a suitable mechanical process such as blasting with solid abrasives, or high-pressure water jets (> 800 bar). Pores and shrinkage holes must be opened 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

0.3 - 0.4

l/m<sup>2</sup>

Material consumption depends on, among other factors, the application, substrate and consistency. The stated consumption values are only to be used as a guide. If required, precise consumption values should be determined on the basis of the specific project.

##### Coating procedure

Restoration guidelines OS 2 (OS B)

1. Substrate preparation
2. Hydrophobic priming coat with StoCryl GW 100
3. Intermediate coating with StoCryl V 100, diluted with water to approx. 5 weight per cent
4. StoCryl V 100 top coat, undiluted

Restoration guidelines OS 2 (OS B)

1. HP 100
3. StoCryl V 100 intermediate coating, diluted with approx. 5 weight per cent water
4. StoCryl V 100 top coat

Restoration guidelines OS 4 (OS C)

1. Substrate preparation
2. StoCrete TF 200, StoCrete TF 204 smoothing filler
3. StoCryl V 100 intermediate coating, diluted with approx. 5 weight per cent water
4. StoCryl V 100 top coat

##### Application

Restoration guidelines OS 2 (OS B)

- 1) Surface preparation

- 2) Hydrophobizing priming with StoCryl GW 100

The hydrophobic coating of the prepared concrete substrate with StoCryl GW 100

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### StoCryl V 100

is applied by brush or roller.

Consumption of StoCryl GW 100: approx. 0.2 - 0.25 l/m<sup>2</sup> per application cycle (diluted material)

3) Intermediate coating: StoCryl V 100

After thorough stirring, StoCryl V 100 is diluted to max. 5% with water, stirred well once again and applied manually or by machine.

Consumption of StoCryl V 100: approx. 0.15 l/m<sup>2</sup>

4) Top coating with StoCryl V 100

StoCryl V 100 is applied undiluted after thorough stirring.

Consumption of StoCryl V 100: approx. 0.15 l/m<sup>2</sup>

Restoration guidelines OS 2 (OS B)

1. Surface preparation

2. Hydrophobic priming with StoCryl HP 100

The hydrophobic coating of the prepared concrete substrate with StoCryl HP 100 is applied by brush or roller.

Consumption of StoCryl HP 100 0.2-0.25 l/m<sup>2</sup> per application cycle (diluted material)

3) Intermediate coating with StoCryl V 100

After thorough stirring, StoCryl V 100 is diluted to max. 5% with water, stirred well once again and applied manually or by machine.

Consumption of StoCryl V 100: approx. 0.15 l/m<sup>2</sup>

4) Top coating with StoCryl V 100

StoCryl V 100 is applied undiluted manually or by machine after thorough stirring.

Consumption of StoCryl V 100: approx. 0.15 l/m<sup>2</sup>

Restoration guidelines OS 4 (OS C)

1. Surface preparation

2) Smoothing and filling with StoCrete TF 200 or StoCrete TF 204

Smoothing and filling with StoCrete TF 200 or StoCrete TF 204 in accordance with the technical data sheets.

3) Intermediate coating with StoCryl V 100

After thorough stirring, StoCryl V 100 is diluted to max. 5% with water, stirred well once again and applied manually or by machine.

Consumption of StoCryl V 100: approx. 0.15 l/m<sup>2</sup>

4) Top coating with StoCryl V 100

StoCryl V 100 is applied undiluted manually or by machine after thorough stirring.

Consumption of StoCryl V 100: approx. 0.15 l/m<sup>2</sup>

Application of the material is carried out manually using a brush or roller.

Application of the material is carried out by machine using:

Airless:

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### StoCryl V 100

Nozzle size: 0.019 - 0.021"  
Nozzle size: 0.49 - 0.53 mm  
Spray angle: 40° - 50°

Pressure: approx. 140 - 180 bar  
hose length of 15 m, max. to 100 m - rolling device up to 140 m  
Amount of water to be added: up to max. 5%

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

Inomat M 8:  
hose size - Ø ¾  
device setting level 4 (in case of 10-m hose, max. hose length of 100 m)

Comment: applied undiluted with a paint roller.

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

Drying and waiting times:

Until rain and moisture insensitivity:  
At +8°C: after 6 h  
At +20°C: after 4 h  
At +30°C: after 2 h

Until application of the subsequent layer:  
At +8°C: after 24 h  
At +20°C: after 12 h  
At +30°C: after 5 h

Until testing of the adhesive strength:  
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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#### Indications, recommendations, special information, miscellaneous

The statement(s) of conformity can be obtained in the StoCretec Technical Information Centre  
General application instructions can be found at [www.stocretec.de](http://www.stocretec.de) (Products) and in the appendix of the current manual "Technical Data Sheets"

Protective colloids/streaking:  
If there is premature water loading (condensation or rain) after application, water-soluble protective colloids can be released from the coating film and appear as glossy streaks on the coating surface. As the auxiliary materials remain water-soluble, they are automatically washed off again by subsequent water loading as a result of moisture loading (thawing, rain).

The quality of the dried coating is not impaired by this.

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**Hiding power:**

Depending on the selected colour shade, e.g. intense yellow or intense red, differences in the coverage can occur so that an extra application cycle can be useful in addition to the application cycles listed in the Technical Data Sheet under the coating procedure category.

The hiding power of the above-mentioned colour shades can be increased by preparing 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

**Packaging** Pail

Article number	Designation	Container
01729-020	StoCryl V 100 tinted	15 l pail
01729-001	StoCryl V 100 white	15 l pail

#### Storage

**Storage conditions** Store in dry and frost-free conditions; avoid direct sunlight.

**Storage life** In the original container until ... (see packaging).

#### Certificates/approvals

09/6250/OS-2.1-347	StoCretec OS 2.1
09/6250/OS-2.2-348	StoCretec OS 2.2
09/6250/OS-4.1-349	StoCretec OS 4.1
09/6250/OS-4.3-350	StoCretec OS 4.3
GUT-00000860	Certificate of Compliance

#### 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.

## Technical data sheet

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### StoCryl V 100

#### Special notes

The information or data 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. Nevertheless, users are responsible for establishing the suitability of the product for its intended use.

Applications other than those explicitly mentioned in this technical data sheet are only permissible after prior consultation. Where no approval is given, such applications are at the risk of the user. This applies particularly to combinations 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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