

# Technical Data Sheet StoCryl V 100

Anti-carbonation coating, mid sheen



Characteristics	
Area of application	<ul> <li>As rigid coating for the protection and coloured design of load-bearing structures (concrete and reinforced concrete)</li> </ul>
Properties	<ul> <li>Prevents the ingress of water and harmful substances dissolved in water</li> <li>Regulates the moisture balance</li> <li>Good penetration capacity</li> <li>Very good adhesive bond</li> <li>Good carbon dioxide impermeability</li> <li>Good water vapour diffusion capacity</li> <li>Water-dilutable</li> </ul>
Appearance	<ul> <li>Mid-sheen (G2) in accordance with EN 1062-1</li> </ul>
Information /notes	<ul> <li>Product is in accordance with EN 1504-2</li> <li>Not for horizontal water-loaded surfaces</li> <li>Not for surfaces subject to foot or vehicle traffic</li> <li>For colour design of concrete areas as part of the Sto concrete repair and protection system in building structures</li> <li>Not for rooms that are used for purposes similar to living quarters</li> </ul>

#### **Technical Data**

Criteria	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1.25 - 1.45 g/cm <sup>3</sup>	
Permeability to water vapour	EN ISO 7783-2	S₂ < 5m	Class I
Permeability to CO <sub>2</sub>	EN 1504-4	CO <sub>2</sub> Sd > 50 m	
Gloss	EN 1062-1	Mid sheen	G2

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

Concrete substrates:

Requirements on the substrate: The substrate must be dry, load-bearing, and free from native and foreign release agents. Remove weak layers and laitance.

Residual moisture may amount to max. 4% by weight for concrete in strength classes up to C30/37 and max. 3% by weight for C35/45 concrete, measured with a calcium carbide meter.



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Existing coatings:

Compatibility in accordance with ISO 2409: Cross cut value < 1

Preparation	Concrete Substrates:		
	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.		
	Existing coating:		
	Cleaning with high-pressure water jet		
Application			
Application temperature	Lowest application temperature: +8 °C Highest application temperature: +40 °C		
Material Preparation	Ready-to-use, stir thoroughly before application.		
Consumption	Type of application	Approx. consumption	
	per paint coat	0.15 - 0.2 L/m <sup>2</sup>	
	for 2 coats	$0.3 - 0.4 \text{ L/m}^2$	
	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	Protective coating without fairing coat (	(unimpregnated substrates)	
	<ol> <li>Substrate preparation</li> <li>Hydrophobic prime coating of StoCryl T</li> <li>Intermediate coat of StoCryl V 100, diluted</li> <li>Top coat of StoCryl V 100</li> </ol>	l ted approx. 5% by weight with water	
	Protective coating with fairing coated	d substrates	
	<ol> <li>Substrate preparation</li> <li>Fairing coat with StoLevell Thinplast</li> <li>Intermediate coat of StoCryl V 100, diluted</li> <li>Top coat of StoCryl V 100</li> </ol>	ted approx. 5% by weight with water	
	Protective coating on existing coating		
	<ol> <li>1) Substrate preparation</li> <li>2) Prime coating of StoCryl GQ or StoPlex</li> <li>3) Intermediate coat of StoCryl V 100, diluted</li> <li>4) Top coat of StoCryl V 100</li> </ol>	ted approx. 5% by weight with water	
Application	Protective coating without fairing coat (	(unimpregnated substrates)	

1) Substrate preparation



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2) Hydrophobic prime coating of StoCryl TI The hydrophobic impregnation of the prepared concrete substrate with StoCryl TI is applied by brush or roller. Consumption StoCryl TI 0.10-0.20 L/m<sup>2</sup> per application cycle (depending on the absorbency of the surface) Intermediate coat of StoCryl V 100 After stirring well, dilute StoCryl V 100 with max. 5% by weight with water, stir well once again, and apply manually or by machine. Consumption StoCryl V 100: approx. 0.15 L/m<sup>2</sup> 4) Finish StoCryl V 100 After stirring well, apply StoCryl V 100 undiluted manually or by machine. Consumption StoCryl V 100: approx. 0.15 L/m<sup>2</sup> Protective coating with fairing coated substrates 1) Substrate preparation Smoothing and filling with StoLevell Thinplast The smoothing and filling with StoLevell Thinplast in accordance with the technical data sheet Consumption StoLevell Thinplast approximately 1.45 kg/m<sup>2</sup>/mm 3) Intermediate coat of StoCryl V 100 After stirring well, dilute StoCryl V 100 with max. 5% by weight with water, stir well once again, and apply manually or by machine. Consumption StoCryl V 100: approx. 0.15 L/m<sup>2</sup> 4) Finish StoCryl V 100 After stirring well, apply StoCryl V 100 undiluted manually or by machine. Consumption StoCryl V 100: approx. 0.15 L/m<sup>2</sup> Protective coating on existing coating 1) Substrate preparation 2) Prime coating of StoCryl GQ or StoPlex W The priming of existing coating with StoCryl GQ or StoPlex W is applied by brush or roller. Consumption StoCryl GQ 0.20-0.30 kg/m<sup>2</sup>, or StoPlex W 0.10-0.40 L/m<sup>2</sup> per application cycle (depending on the absorbency of the surface) Intermediate coat of StoCryl V 100 After stirring well, dilute StoCryl V 100 with max. 5% by weight with water, stir well once again, and apply manually or by machine. Consumption StoCryl V 100: approx. 0.15 L/m<sup>2</sup> 4) Finish StoCryl V 100 After stirring well, apply StoCryl V 100 undiluted manually or by machine.



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	Consumption StoCryl V 100: a	pprox. 0.15 L/m²	
	If applying the material manua	lly, use a paint brush or rolle	er.
	If applying the material by mac Airless:	chine, use the following:	
	Nozzle size: 0.019 - 0.021"		
	Nozzle size: 0.49 - 0.53 mm		
	Spray angle: 40° - 50° Pressure: approx 140 - 180 b	ar	
	Hose length 15 m, max. 100 m	1	
	Addition of water: max. 5 %		
Drying, curing , ready for next coat	Drying and waiting times: Until no longer sensitive to rair At +8 °C: after 6 h At +20 °C: after 4 h At +30 °C: after 2 h	n and humidity:	
	Until application of the next lay	/er:	
	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 of tools	Clean with water immediately mechanically.	after use; hardened materia	al can only be removed
Notes, recommendation,	The Declaration(s) of Conform	nity can be obtained from the	e local sales office.
special information, miscellaneous	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 the surface with a colour shad colour shade.	r shades mentioned above o le with better hiding power t	can be increased by pre-coating hat is matched to the selected
Delivery			
Colour shade	Sto RAL colour range: Basic range (PG 11) Special range (PG 12)		
Packaging	Pail		
i uonaying	Article number	Name	Container



# Technical Data Sheet

### StoCryl V 100

	53000-067	StoCryl V 100 tinted	15 L pail	
	53000-066	StoCryl V 100 white	15 L pail	
Storage				
Storage conditions	Store in cool dry conditions; avoid direct sunlight.			
Storage life	This product has a shelf life of 12 months from the manufacturing date.			
Identification				
Product group	Coating			
Safety	Please refer to Safety Data Sl	heet.		

**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 <u>www.sto-sea.com</u>.

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