

# StoCryl V 700 S

Coating, biomimetic function with SunBlock Technology





Characteristics	
Area of application	<ul> <li>exposed to the weather</li> </ul>
	<ul> <li>as a coating with biomimetic function specially for concrete structures</li> </ul>
	<ul> <li>for the protection and coloured decoration of concrete structures</li> </ul>
Properties	rapid drying after rain or dew formation due to biomimetic principle
	<ul> <li>prevents the ingress of water and harmful substances dissolved in water</li> </ul>
	<ul> <li>regulates the moisture balance</li> </ul>
	increases electrical resistivity
	<ul> <li>good carbon dioxide impermeability (S<sub>d</sub> value for CO<sub>2</sub> &gt; 50 m)</li> </ul>
	<ul> <li>good water vapour diffusion capacity (S<sub>d</sub> value for H<sub>2</sub>O &lt; 4 m)</li> </ul>
	<ul> <li>minimal extender material breakdown / not easily scuffed</li> </ul>
	highest whiteness
	<ul> <li>highest colour shade variety and stability thanks to the SunBlocker Technology</li> </ul>
	without biocide film protection
Appearance	• matt (G3) accordance with EN 1062-1
Information/notes	not suitable for horizontal surfaces in contact with water
	<ul> <li>not suitable for surfaces subject to foot or vehicle traffic</li> </ul>

#### 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	0.50 m	V2 medium
Water permeability rate w	EN 1062-1	< 0.05 kg/(m²h <sup>0,5</sup> )	W3 low
Water vapour diffusion- equivalent air layer thickness µ	EN ISO 7783	2,520	
Carbon dioxide permeability	EN 1504-2:2004		sd > 50 m

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.



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Substrate					
Requirements	The substrate must be dry, clean, 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. The moisture conter may not exceed 4 CM per cent for concrete qualities up to C30/37 and max. 3 Cl per cent for C35/45 concrete, measured with a calcium carbide meter.				
	Existing coats: Firmly adhering and load-bearing				
Preparations	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.				
Application					
Application temperature	Lowest application temperature: +8 °C Highest application temperature: +30 °C				
Material preparation	Ready-to-use, stir thoroughly before first a	pplication.			
	For machine application, the amount of war of the respective machine/pump. As a rule, strong colour shades need less application consistency.				
Consumption	Type of application	Approx. consumption			
	as coating (2 layers)	0.24 - 0.30 l/m²			
	Material consumption depends on the app among other factors. The stated consumpt guide. If required, determine precise consu specific project.	tion values are only to be used as a			
Coating build-up	coating on existing paint coats: (adhesive a 1) Prime coating: StoCryl GQ 2) Coating: StoCryl V 700 S (first layer) dilu 3) Coating: StoCryl V 700 S (second layer)	uted with approx. 5 wt% water			
	Coating on hydrophobic impregnation 1) Substrate preparation 2) Hydrophobic coating of StoCryl HP 100 3) Coating: StoCryl V 700 S (first layer) dilu 4) Coating: StoCryl V 700 S (second layer)	uted with approx. 5 wt% water			



## StoCryl V 700 S

Coating on fine filler

- 1) Substrate preparation
- 2) Hydrophobic impregnation of StoCryl GW 100
- 3) Fairing coat with StoCrete TF 204
- 4) Coating: StoCryl V 700 S (first layer) diluted with approx. 5 wt% water
- 5) Coating: StoCryl V 700 S (second layer)

#### **Application**

Manual application: by paint brush or by roller

Machine application: by spray

Spray with low overspray:

Low material consumption without rolling afterwards:

Nozzle: 4/19 or 4/17

Pressure: approx. 200 - 250 bar

Application of higher material quantities with rolling afterwards:

Nozzle: 5/21

Pressure: approx. 120 bar

Airless equipment:

InoSPRAY M 5 or comparable device

If necessary, create project-specific test surfaces

#### Drying, curing, ready for next

coat

At +20  $^{\circ}\text{C}$  temperature (air and substrate) and 65  $^{\circ}\text{C}$  relative air humidity: over-

coatable after approx. 24 hours.

High humidity and/or low temperatures prolong drying.

#### Cleaning the tools

Clean with water immediately after use.

# 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 and in the notes of the latest Technical Manual.

protective colloids and streaks:

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.

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#### 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 precoating the surface with a colour shade with better hiding power that is matched to the selected colour shade.

Delivery					
Colour shade	white, tintable in acc	white, tintable in accordance with the StoColor System			
Packaging	pail				
	Article number	Name	Container		
	01757-012	StoCryl V 700 S white	15 l pail		
	01757-011	StoCryl V 700 S tinted	15 I pail		
Storage					
Storage conditions	Store in dry and frost-free conditions. Avoid direct sunlight.				
Storage life	In the original container until (see packaging).				

Identification	
Product group	Coating
Safety	Observe the Safety Data Sheet! Safety instructions refer to the ready-to-use, unapplied product.

#### **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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