

Coating with biomimetic function

CE

€+30°C ↓



| Characteristics | |
|---------------------|--|
| Area of application | exposed to the weather as a coating with biomimetic function specially for concrete structures for the protection and coloured decoration of concrete structures |
| Properties | • rapid drying after rain or dew formation due to biomimetic principle • prevents the ingress of water and harmful substances dissolved in water • regulates the moisture balance • increases electrical resistivity • 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) • minimal extender material breakdown / not easily scuffed • highest whiteness • high level of colour shade variety and stability • without biocide film protection |
| Appearance | • matt (G3) accordance with EN 1062-1 |
| 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 ³ | |
| Diffusion-equivalent air layer thickness | EN ISO 7783 | 0.50 m | V2 medium |
| Water permeability rate w | EN 1062-1 | < 0.05 kg/(m²h ^{0,5}) | W3 low |
| Water vapour diffusion- equivalent air layer thickness µ | EN ISO 7783 | 2,520 | |
| Gloss | EN 1062-1 | Matt | G3 |
| Dry layer thickness | EN 1062-1 | 150 µm | E3 > 100; ≤ 200 |
| Grain size | EN 1062-1 | < 100 µm | S1 fine |
| Carbon dioxide permeability | EN 1504-2:2004 | | sd > 50 m |



| | The characteristic values stated are average the natural raw materials in our products, the same delivery batch; this does not affect the intended use. | he stated values can vary slig | ghtly in the | |
|-------------------------------------|--|---|---|--|
| ubstrate | | | | |
| 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 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. | | | |
| | 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. | | rasive | |
| Application | | | | |
| Application temperature | Lowest application temperature: +8 °C Highest application temperature: +30 °C | | | |
| | Ready-to-use, stir thoroughly before first application. | | | |
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| | Coating on fine filler 1) Substrate preparation 2) Fine filler using StoCrete TF 204 3) Coating: StoCryl V 700 (first layer) diluted with approx. 5 wt% water 4) Coating of StoCryl V 700 (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 °C temperature (air and substrate) and 65 % 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/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. |



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 accordance with the StoColor System | | | |
| Packaging | pail | | | |
| | Article number | Name | Container | |
| | 01757-008 | StoCryl V 700 white | 15 l pail | |
| | 01757-007 | StoCryl V 700 tinted | 15 l pail | |
| Storage | | | | |
| Storage conditions | Store in dry and frost-free conditions. Protect from direct sunlight. | | | |
| Storage life | The product quality is best guaranteed in its unopened original container until its shelf life has expired. The first digit of the batch number is the final digit of the year. The second and third digits indicate the calendar week. Example: 1450013223 - shelf life until end of calendar week 45 in 2021. See product packaging | | | |

 Identification

 Product group
 Coating

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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