

Rocathaan ColdSpray CS-100-S

Description and application

Rocathaan ColdSpray CS-100-S is a quick-curing, solvent-free, 2-component coating based on a reaction between an isocyanate prepolymer and an amine/polyol blend.

This elastomer coating was specially developed for the protection and sealing of many types of surfaces, including concrete and steel or in combination with geotextile. The product is relatively resistant to moisture and temperature. The product will cure fast into a durable elastic finish.

This product is available in 1500 ml cartridges and is mostly applied to repair, maintain and seal small surface areas.

Article number and packaging

19100-15 1500 ml cartridge

Properties

- Impact and wear resistant
- Stays slightly elastic
- Provides a seamless finish
- Resistant against various chemicals
- Resistant against salt water
- Good anti-corrosive qualities (low permeability)
- Applicable indoors and outdoors, UV-proof
- Good adhesion on a great variety of surfaces, such as steel, concrete, aluminium, fibreglass, wood and insulation materials

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| Elongation | ± 120% (DIN 53504) |
| Tensile strength | ± 6 MPa (DIN 53504) |
| Shore hardness | A87 ± 5 (DIN 53505, ASTM D2240) |
| Wear resistance taber | 20 mg (1000, 1 kg load, CS17) |
| MU Value | 1000 |
| Fire class | B2 (DIN 4102) |

Properties liquid product

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|---------------|---|
| Colour | Approx. RAL 7032, 9005 <i>Other colours are available on project basis and on request.</i> |
| Density | 1,08 kg/l mixed product |
| Volume solids | 100% |
| Flash point | >80 °C |
| Shelf life | At least 12 months after the date of production, if stored cool in unopened packaging between 10 - 30 °C. Store package horizontal. |

Application information

The application takes place via an air-driven 1500 ml spray gun fitted with a spray adapter for air support. The air provision should deliver a constant pressure of 6 to 8 bars for at least 240 l/min.



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| Reaction time | 3 minutes <i>Partly depending on start temperature of the product.</i> |
| Tack free | 8 minutes |
| Material temperature | 20 - 30 °C (pre-heat if necessary) |
| Spraying temperature | 6 - 8 bar |
| Air supply | 240 l/m |
| Usage | 1,08 kg/m ² /mm <i>From 1,5 mm. The applied layer thickness determines the final properties and must be adjusted to the purpose. Read the relevant application sheets.</i> |
| Mixing ratio | 1:1 in volume |
| Surface temperature | Minimum +10 °C |
| Open time* | With the same product: Almost directly and max. within 24 hours Solvent free: min. 24 and max. 36 hours Solvent-containing: min. 3 and max. 36 hours. <i>Open times can decrease as the temperature rises. When exceeding the open time, the existing layer must be sanded and provided with a suitable primer.</i> |
| Chemical resistant* | After 7 x 24 hours |
| Mechanical resistant* | After 2 x 24 hours |
| Cleaning agent | Roca Cleaner N6500-P (equipment) |

Notes during application

If desired, pre-heat to a temperature between 20 - 30 °C.

Do not inhale spray mist. Ensure respiratory equipment designed for the conditions is worn while spraying.

2-component products may only be applied when the relative humidity is less than 85%. Condensation on the surface reduces the adhesion. The minimum ambient and surface temperature is +10° C

* At 20 °C and 65% RH surface.
** At 1 kg and 20 °C product.



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Rocathaan ColdSpray CS-100-S

and the temperature of the surface to be treated and the uncured product must be 3° C above the dew point. See the dew point table.

Surface and circumstances

If a topcoating is going to be applied as a finishing layer, it must be suitable for the purpose and elasticity of the surface.

With most surfaces, a primer will be necessary. In that case, read the technical product sheet of the product in question.

The surface must be healthy, with a minimum compression strength of 25 MPa and a minimum adhesion strength of 1,5 MPa. The surface must be clean and free of grease. All loose components must be removed. Concrete and anhydrite needs to be at least 28 days old.

Any cement skin must be removed. Monolithic floors must be sanded and any dust must be removed. Surfaces with dirt pickup, or loose sand-cement screeds (e.g. bomb ice) can be removed, for example by blasting and making the surface dust-free.

Clean contaminated and greasy surfaces (oil and grease), preferably with a steam cleaner, using a suitable cleaning agent. Rinse well with clean tap water. If this does not result in a clean, load-bearing surface, blasting should be performed.

The surface must be free from pressure or rising water from the subsoil.

Moisture content surface

- cement-bound : < 4% CM (parts by weights)
- plaster-bound : < 0,5% CM (parts by weights)

There are various types of surfaces. Some of which have their own individual pre-treatment requirements. If in doubt, getting in contact with your supplier is advised.

For detailed information regarding pre-treatment of the surfaces, please see the "surface pre-treatment" information sheet.

Important

Projects and applications can vary greatly. Always contact your supplier if you have doubts about a certain application, choice of material or surface treatment.

All the technical information given in this technical information sheet is based on laboratory tests. Information can change, depending on the conditions.

Legal notification

The information and, in particular, the recommendations concerning the application and final use of Prokol products is issued in good faith based on Prokol's current knowledge and experience of products that are correctly stored, handled and applied under normal conditions.

In practice, the differences in materials, surfaces and local conditions are such that no guarantee can be given concerning the marketability or suitability for a certain objective, nor can any liability arise from any legal relationship based on this information, nor from any written recommendations or other advice that is given. The property rights of third parties must be respected.

Prokol guarantees that its products are free from manufacturing faults. Multi-component products are a finished product once the components have been mixed and processed. When mixed and processed correctly, the product will achieve the specifications given. Prokol can only guarantee the product when surfaces are processed and pre-treated correctly.

All orders are accepted under the current sales and delivery conditions. Users must always refer to the most recent product safety information sheet and product information sheet for the product concerned.

Copies of the most recent editions are provided upon request and are available at www.prokol.com.

The publication of this product information sheet makes all previous product information sheets for this product invalid.

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