

Rocathaan Hotspray MP 430

Description and application

Highly reactive, solvent-free, aromatic hotspray coating based on modified polyurea. Used as watertight, durable sealing and finish for a variety of surfaces.

Forms a durable, water- and airtight, permanent lining for trucks, pick-up trucks, dump trucks and steel containers. Suitable for theme parks as a protective coating over foam, EPS and other structures to create decoratives, themed characters, artificial rocks and environments. Can also be used as (watertight) floor coating in the construction sector for, among other things, galleries and balconies.

Article number and packaging

19430-20	39,25 kg (already on colour)
19430-200	447,5 kg set (colourless product)
	4,5 kg Prokol Hotspray Color Pasta

Properties

- Seamless
- Wear-resistant and resistant to impact
- Elastic, also with low temperatures

50% Modulus	9 MPa
100% Modulus	10,8 MPa
200% Modulus	16,9 MPa
Elongation	± 250% (DIN 53504)
Tensile strength	± 18 MPa (DIN 53504)
Shore hardness	A96 ± 5 (DIN 53505, ASTM D2240) D50 ± 5 (DIN 53505, ASTM D2240)
Wear resistance taber	44 mg 1000 cycles, 1000 g load, CS17 (EN ISO 5470-1)
MU Value	1000
Fire class	B2 (DIN 4102-1)

Properties liquid product

Colour	Available in RAL colours, see colour overview. <i>Other colours are available on project basis and on request.</i>
Density	1,11 kg/l mixed product
Volume solids	>99%
Flash point	>80 °C
Shelf life	At least 12 months after the date of production, if stored cool in unopened packaging and protected against frost. Drums should always be placed on pallets to avoid direct contact with the floor.

Application information

Is processed with multi-component (hotspray) high pressure equipment using a suitable spray gun. This equipment must be adjusted for the product to be sprayed and capable of supplying sufficient pressure. The spray temperature and layer thickness strongly influence the reaction time, curing and treatment.

Reaction time	5 – 8 seconds
Tack free	30 – 40 seconds
Spraying temperature	65 – 80 °C
Hose temperature	65 – 80 °C
Spraying pressure	<i>Depending on the type of pistol and mixing chamber.</i> <ul style="list-style-type: none">- Fusion CS gun 130 – 140 bar- Fusion AP gun 150 – 180 bar
Usage	1,02 kg/m ² /mm <i>From 2 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	Min. +5 °C
Open time*	Solvent free: Almost directly and max. within 24 hours Solvent-containing: min. 12 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 3 x 24 hours <i>Each Prokol product has varying levels of resistance to specific chemicals. Chemical concentrations are complex and are strongly influenced by the environment and temperature. Contact Prokol technical support for specific recommendations.</i>
Mechanical resistant*	After 10 - 24 hours
Dilution	Not permitted
Cleaning agent	Roca Cleaner N6500-P (equipment)
Rinsing agent	Roca Cleaner TC-N

* At 20 °C and 65% RH surface.

** At 1 kg and 20 °C product.



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Mixing instructions

The temperature of the materials in the drums need to be at least 15 °C with a maximum of 35 °C.

If the materials are too cold, use the heaters of the spraying equipment to heat them up.

Be aware! Start by mixing the A (base) component intensively for 20 minutes before starting heating and circulating the materials through the pump. Use a Twistork-helix mixer to obtain a homogeneous mixture.

The mixing time depends on the size of packaging. A 200 liter drum, used for the first time or after a longer storage period, should be mixed intensively for 45 minutes. Following this, short and thorough mechanical mixing at every turn is sufficient.

Non-homogenous mixed products lead to deviating features in the end-result subsequently.

Notes during application

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

Surface and circumstances

In general

Aromatic products are not fully colour/UV-proof and will slightly decolourise when exposed to UV light. If this is not desired, adding a aliphatic topcoating as finish layer based on the elasticity of this product is advised.

Concrete

The concrete must be healthy, dry, grease-free and load-bearing and at least 28 days old. Blast or use another correct pre-treatment on power-floated surfaces.

The concrete moisture content may be max. 4% and the temperature should be at least 12 °C. Provide the surface with a suitable primer if necessary.

Surfaces with dirt pickup or sand-cement screeds (e.g. bomb ice) can be removed, for example by blasting and making the surface dust-free.

Moisture content surface

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

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

Repairs and equalizations must be carried out professionally with the appropriate products, also with regard to the finishing layer. Any expansion joints in the surface may not be concealed, but must retain their function.

The load-bearing capacity of the synthetic floor depends on the compressive strength of the cement-bound screed and can never be absorbed by a flooring system.

Metal surfaces

Metal surfaces need to be blasted Sa 2,5, 75 -80 microns and treated with a primer with anti-corrosion properties.

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.

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



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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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