

Rocathaan Hotspray PA 690-AL

Description and application

Rocathaan Hotspray PA 690-AL is a fast-curing, aliphatic hotspray coating based on pure polyurea. It can be applied to surfaces such as concrete, metal, and wood. Due to its rapid curing, virtually any shape can be coated.

Can be used as a liner for many applications where light and colour stability is required without using a topcoating. Typical examples of applications are:

- Facades
- Walls
- Floors
- (Professional) fish tanks/aquariums.

Article number and packaging

19690-20	39,75 kg set (already on colour)
19690-200	450 kg set (already on colour)

Properties

- Good chemical resistance
- Low temperature flexibility
- No toxic vapor
- Outstanding thermal stability

Elongation	± 40% (DIN 53504)
Tensile strength	± 20 MPa (DIN 53504)
Shore hardness	D75 ± 5 (DIN 53505, ASTM D2240)
Wear resistance taber	16 mg 1000 cycles, 1000 g load, CS18
MU Value	1000

Properties liquid product

Colour	7035 <i>Other colours are available on project basis and on request.</i>
Density	1,13 kg/l mixed product
Volume solids	100%
Flash point	>200 °C
Shelf life	At least 12 months after the date of production, if stored cool in unopened packaging and protected against frost.

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	Approx. 10 seconds
Tack free	2 minutes
Spraying temperature	70 – 85 °C
Hose temperature	70 – 75 °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	1,13 kg/m ² /mm <i>From 400 microns using a flattip. 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
Open time*	With the same product: 0- 24 hours Solvent free: min. 3 – 24 hours Solvent-containing: 24 – 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 <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 2 x 24 hours
Dilution	Not permitted
Cleaning agent	Roca Cleaner N6500-P (equipment)
Rinsing agent	Roca Cleaner TC-N

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.



Application information

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



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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.

The reaction temperature of the product partly depends on the surface temperature. If thicker layers are desired, first providing the surface with a thin layer is advised. The reaction heat that is created during this process makes it possible to apply several layers one after the other.

Surface and circumstances

The surface must be healthy, with a minimum compression strength of 25 MPa and a minimum adhesion strength of 1,5 MPa for normal used flooring and 2 MPa for heavy load flooring.

The surface must be clean, dry and free of grease. All loose components must be removed by abrasive blasting, captive blasting, high pressure water blasting. This is to remove all surface laitance.

Concrete must be at least 28 days old. Any cement skin must be removed. Monolithic and closed floors must be sanded and any dust must be removed. Remove cement skin and concrete residues by grinding, blasting or sanding.

Smooth and closed surfaces (e.g. concrete) need to be roughened (dust-free) by blasting. Pre-treat contaminated surfaces using flame blasting. After sanding, carefully remove dust from the surface using an industrial vacuum cleaner. Be aware that sanding can lead to filling of the pores, which can lead to reduced adhesion.

Moisture content surface

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

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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.

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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