

# Rocathaan Hotspray PA IMU-FR

## Description and application

Highly reactive, solvent-free hotspray based on high-quality, aromatic polyurea technology. Due to its quick-curing, any shape can be coated seamlessly. Rocathaan Hotspray PA IMU-FR is a intumescent fire retardant hotspray and complies with the European B-roof (t1) norm. Report available on request.

## Certificates available:

- **European standard B-Roof (t1)**
- **EN-13501-5: 2005/AC: 2006**

Can be used as protection/lining for a wide variety of shapes and applications consisting of metal or mineral surfaces as well as insulation materials such as EPS and PU foam, including facades and complex roof shapes and industrial roofs. Can be finished in colour if desired.

## Article number and packaging

19405-200      459 kg set

## Properties

- Impact proof
- Intumescent properties
- Stays elastic
- Light structure finish possible using overspray

50% Modulus	9,20 MPa
100% Modulus	10,70 MPa
200% Modulus	15,30 MPa
Elongation	± 230% (DIN 53504)
Tensile strength	± 17 MPa (DIN 53504)
Shore hardness	A98 ± 5 (DIN 53505, ASTM D2240) D58 ± 5 (DIN 53505, ASTM D2240)
Wear resistance taber	10 mg 1000 cycles, 10000 g load, CS18
MU Value	1000
Fire class	European standard B-Roof (t1)

## Properties liquid product

Colour	Approx. RAL 7032 <i>Other colours are available on project basis and on request.</i>
Density	1,14 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 and protected against frost.

## 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	Approx. 5 seconds
Tack free	30 - 45 seconds
Spraying temperature	65 - 85 °C
Hose temperature	65 - 85 °C
Spraying pressure	<i>Depending on the type of pistol and mixing chamber.</i> - Fusion CS gun 130 - 140 bar - Fusion AP gun 150 - 180 bar
Usage	1,14 kg/m <sup>2</sup> /mm <i>From 1 mm. The applied layer thickness partially determines the properties and must be adjusted to the purpose.</i>
Mixing ratio	1:1 in volume
Surface temperature	Min. +5 °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 <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

\* 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.

2-component products may only be applied when the relative humidity is less than 85%. Condensation on the surface reduces the adhesion. The minimum environment and surface temperature is +5 °C 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.

This product contains fire retardant substances. During storage, these substances will sink to the bottom of the packaging. Standard agitators are usually not capable of stirring up these products sufficiently. However, this is very important for the fire retardant function of the product. A practical solution is to place the packaging upside down in storage and turn it over shortly before use. During stirring, the fire retardants will sink to the bottom and become well mixed with the liquid substances. Mix at ample speed and at least 1 hour before use. During application the product must constantly be mixed.

## 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. 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)

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

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.

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.

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

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

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



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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](http://www.prokol.com).

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

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