

# Rocathaan Hotspray PU 480-ESD

## Description and application

Electrically conductive, highly reactive and solvent-free hotspray coating, based on full-fledged, aromatic polyurea technology. Once cured, a hard top layer is formed with a good balance between impact resistance and elasticity.

As protection and/or sealing of tanks, containers, concrete or steel surfaces such as floors where electrical conductivity is required.

## Certificates available:

- **Electrically conductive! Independently tested by TÜV Süd - Germany. The surfaces measured with PA 480 ESD are electrostatically conductive according to TRGS 727 for floors in potentially explosive areas.**
  - **Electrical leakage resistance: <107 Ohm**
  - **The measured values on metal: 340 to 410 mΩ.**
  - **The measured values on concrete: 500 mΩ**

## Article number and packaging

19480-20	39,25 kg set (already on colour)
19480-200	447,5 kg set (colourless product)
	4,5 kg Prokol Hotspray Color Pasta

## Properties

- Solvent-free
- Stays elastic
- Electrically conductive
- Structure layer possible using mist spray

50% Modulus	11 MPa
100% Modulus	13 MPa
200% Modulus	18 MPa
Elongation	330% (DIN 53504)
Tensile strength	23 MPa (DIN 53504)
Shore hardness	A96 ± 5 (DIN 53505, ASTM D2240) D53 ± 5 (DIN 53505, ASTM D2240)
Wear resistance taber	15 mg (1000, 1 kg load, CS18)
MU Value	1000
Fire class	B2 (DIN 4102)
Electrical resistance	At layer thickness 2 mm: <10 Ohm

## Adhesion strength

- Concrete surfaces > 1,6 MPa
- Steel surfaces > 6,5 MPa
- Bitumen surfaces > 0,6 MPa

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

## 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	100%
Flash point	>100 °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	Almost directly after applying
Spraying temperature	65 – 80 °C
Hose temperature	65 – 80 °C
Spraying pressure	AP gun 150 – 180 bar
Usage	1,11 kg/m <sup>2</sup> /mm <i>From 1 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	+5 and + 30 °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 3 x 24 hours
Wear resistant*	After 3 x 24 hours
Cleaning agent	Roca Cleaner N6500-P (equipment)
Rinsing agent	Roca Cleaner TC-N



Tel. +31 (0)85 78 200 20 • Fax. +31 (0)85 78 200 21  
www.prokol.com • info@prokol.com



CE

Prokol Coating Group  
Duizeltonksestraat 44  
NL-5705 CA Helmond

10

0958 - 9493127  
EN 1504-2

surface protection products  
fastset coating



Liquid synthetic materials for a sustainable future

# Rocathaan Hotspray PU 480-ESD

## 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.

## 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 must be at least 28 days old. Any cement skin must be removed. Monolithic floors must be sanded and any dust must be removed.

## Moisture content surface

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

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. 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.

Surfaces need to be sanded conform Sa 2,5, 75 -100 microns, DIN EN ISO 12 944, part 4. Any dust must be removed and the surface must be treated with a primer with anti-corrosion properties.

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.

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

## 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.

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



Tel. +31 (0)85 78 200 20 • Fax. +31 (0)85 78 200 21  
www.prokol.com • info@prokol.com



CE

Prokol Coating Group  
Duizeldonksestraat 44  
NL-5705 CA Helmond

10

0958 - 9493127  
EN 1504-2

surface protection products  
fastset coating



Liquid synthetic materials for a sustainable future

# Rocathaan Hotspray PU 480-ESD

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.

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



Tel. +31 (0)85 78 200 20 • Fax. +31 (0)85 78 200 21  
[www.prokol.com](http://www.prokol.com) • [info@prokol.com](mailto:info@prokol.com)



CE

Prokol Coating Group  
Duizeltonksestraat 44  
NL-5705 CA Helmond

10

0958 - 9493127  
EN 1504-2

surface protection products  
fastset coating



**Liquid synthetic materials for a sustainable future**