

# RAYSTON SPRAY D60 EPS

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Sprayed, hot-applied modified polyurea membrane

## DESCRIPTION

Rayston Spray D60 EPS is a hard protective coating specially formulated for expanded polystyrene (EPS) foam. This product can only be applied by 2-component spraying equipment.

## APPLICATION

- Covering EPS foam and phenolic foam, as an ict protection
- Industrial machinery and vehicle protection

## PROPERTIES

- Hard-flexible membrane
- Fast curing
- Pigmentable

## TECHNICAL DATA

### INFORMATION ON THE PRODUCT BEFORE APPLICATION

	Component A	Component B
<b>Chemical description</b>	Polyol/Polyamine	Aromatic isocyanate prepolymer
<b>Physical state</b>	Líquid	Líquid
<b>Packaging</b> Note: Pigment is delivered in a third container. See Pigment Spray data sheet for specific details.	Metal container 183kg 23kg	Metal container 213kg 26.5kg
<b>Non-volatile content (%)</b>	approx 100%	100%
<b>Flash point</b>	>100°C	>100°C
<b>Colour</b>	Slightly yellow	Brown

### Density

Temp (°C)	Density (g/cm3)	Temp (°C)	Density (g/cm3)
25	1.04	25	1.20

### ViscosityApproximate

Temp (°C)	Viscosity (m.Pas)	Temp (°C)	Viscosity (m.Pas)
60	250	60	220
25	1800	25	1500

### Mixing ratio A/B

A=1, B=1,15 by weight  
A=1, B=1 by volume

### Density and viscosity of the mixture

Fast polymerization. See Pot life data

**Colour** Clear yellow, but component A is pigmented by addition of pigment paste (Spray Pigment) delivered with each kit of Rayston Spray D60 EPS

### Pot life

Approximate  
Gel time mixture A+B (20 g)  
7 s at 25°C  
4-5 s at 60°C  
tack-free: 15-20s  
Time to sand: 10-15 minutes

### Storage

Keep between 10° y 30°C.

### Use before

12 months after manufacture date, provided it is kept in its sealed container.

### INFORMATION ON THE FINAL PRODUCT

**Final state** Solid elastomeric membrane

**Colour** Beige. Available Spray pigmentpastes are Gray RAL 7011. Tile red, Beige RAL 1001, blue RAL 5015. Other

pastes under request.

**Hardness Shore** 65-70D  
(ISO 868)

**Mechanical properties** Tensile strength: 25  
Elongation at break: 15%  
Tear strength: 83.3 N/mm

**UV resistance** Good resistance to UV-induced degradation. Aromatic polyureas undergo change of colour under sunlight. This change does not affect its mechanical properties. Additional UV protection can be achieved by application of an Impertrans or Colodur topcoat.

## SUPPORT REQUIREMENTS

In order to achieve a good penetration and bonding, support must be:

- Coct and cohesive enough.
- Free from cracks and fissures. If any, they must be previously repaired.
- Clean and dry, free of dust, loose particles, oils, organic residues and paints

Support temperature must be between 10°C and 40°C. At higher temperatures, additional measures to be advised by the manufacturer must be taken. Support moisture must be less than 4%.

## MIXING

Stir and homogenize separately both components using suitable mixing equipment before being loaded into the machine. Add the required Pigment Spray to the A-component and stir before loading. Recirculate both components while heating up to the required application temperatures.

## APPLICATION GUIDELINES

Rayston Spray D60 EPS must be applied using a 2-component hot spraying equipment. Recommended temperatures are:

- Component A: 70°C
- Component B: 70°C

Pressure should be 130-150bar.

During application, check layer thickness and curing speed.

Spray Rayston Spray D60 EPS at 1 kg/m2. Thicker applications may lead to some cracking.

Wind speeds in excess of 25 km/h may result in excessive loss of exotherm and interfere with the mixing efficiency of the spray gun affecting polyurea surface texture, cure, and physical properties and will cause overspray issues.

Contact Krypton Chemical for more detailed technical information.

## CURING TIME

Approximate hardness values are provided as reference only (1 mm, polypropylene support, 25°C 50% RH)

Time	Hardness shore D
15 min	36
2 hour	50
7 hours	57
14 hours	60
24 hours	61

## REAPPLICATION

Needed thickness should be obtained in one single coat. A second coat is not recommended.

## TOOL CLEANING

Solvent use for machine component cleaning is discouraged. A cleaning plasticizer fluid like Rayston Fluid is suitable. Component B must be completely removed from all air-exposed parts and replaced with this cleaning fluid.



### KRYPTON CHEMICAL SL

C/ Martí i Franquès, 12 - Pol. Ind. les Tàpies  
43890 - l'Hospitalet de l'Infant - Spain  
Tel: +34 977 822 245 - Fax: +34 977 823 977

www.kryptonchemical.com - rayston@kryptonchemical.com

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## FAQS

PROBLEM	QUESTION	CAUSE	SOLUTION
The product does not cure	Is AB ratio correct?	Pressure differences	Check and correct machine operation
Bubbles or open pores	Porous support?	No primer unsuitable support	Apply a suitable primer before Rayston Spray P5060
No hiding power	Horizontal?	Too little product Too little pigment	Apply 1 kg/m <sup>2</sup> Ensure full A+pigment homogeneization
Color change	Exposed to sunlight? Can it be applied without pigmentation?	UV-reaction	Use a last coat in dark grey or red Use of pigment helps to obtain a uniform appearance.

## SAFETY

Component B contains isocyanates. Always follow the safety instructions in the Material Safety Data Sheet. As a general rule, a good ventilation and/or respiratory protection is needed (combined organic vapour filters+particles) along with protective clothing. This product must be used only for the applications here described. This product is intended for industrial and professional use. It is not suitable for DIY-type applications.

## ENVIRONMENTAL PRECAUTIONS

Empty containers must be handled with the same precautions as if they were full. Treat empty containers as hazardous waste, and transfer them to an authorized waste manager. If the containers still have some material left, do not mix with other product with no knowledge of potential dangerous reactions. Component A and B may be mixed on a 1/1 ratio in order to get an inert material, but never do it in volumes larger than 5 litres in order to prevent a dangerous heat evolution.

## OTHER INFORMATION

The information contained in this Technical Data Sheet, as well as our advice, both written as verbal or provided through testing, are based on our experience, and they do not constitute any product guarantee for the installer, who must consider them as simple information.

We recommend studying deeply all information provided before proceeding to the use or application of any of our products, and strongly advise to conduct tests "on-site" in order to determine their convenience for a specific project.

Our recommendations do not exempt of the obligation of installers to deeply study the right application method for these systems before use, as well as to conduct as many preliminary tests as possible should any doubt arise.

The application, use and processing of our products are beyond our control, and therefore under the exclusive responsibility of the installer. In consequence, the installer will be the only responsible of any damage derived from the partial or total in-observation of our indications, and in general, of the inappropriate use or application of these materials.

*This Technical Data Sheet supersedes previous versions.*



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43890 - l'Hospitalet de l'Infant - Spain

Tel: +34 977 822 245 - Fax: +34 977 823 977

www.kryptonchemical.com - rayston@kryptonchemical.com

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