## **RAYSTON SPRAY P5060**

## Sprayed, hot-applied modified polyurea membrane



### **DESCRIPTION**

Rayston Spray P5060 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	
Chemical	Polyol/Polyamine	Aromatic isocyanate	
description		prepolymer	
Physical state	Líquid	Líquid	
Packaging	Metal container	Metal container	
Note: Pigment is	183 kg	213 kg	
delivered in a third	18,3 kg	21,3 kg	
container. See			
Pigment Spray data			
sheet for specific			
details.			
Non-volatile content	approx 100%	100%	
(%)			
Flash point	>100°C	>100°c	
Colour	Slightly yellow	Slightly yellow	
Density			

Temp	Density	Temp	Density
(°C)	(g/cm3)	(°C)	(g/cm3)
20	1.01	20	1,16
50	0,99	50	1.13

ViscosityApproximate	Temp (ºc)	Viscosity (m.Pas)	Temp(°c)	Viscosity (m.Pas)	
	10	5500	10	570	
	20	1900	20	300	
	30	900	30	180	
	40	520	40	110	
	50	250	50	75	
	65	125	65	45	
Mixing ratio A/B					Т

Wilking ratio A/B

Density and viscosity

A=1, B=1,14 by weight A=1, B=1 by volume

tack-free: 15-20s

Time to sand: 10-15 minutes

Keep between 10° y 30°C.

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 P5060
Pot life Approximate	Gel time mixture A+B (20 g) 7 s at 25°C 4-5 s at 60°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.		



Storage

## KRYPTON CHEMICAL SL

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Hardness	60-65D
Shore	(ISO 868)
Mechanical	Tensile strength: 24
properties	Elongation at break: 108%
	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:

- 1. Coct and cohesive enough.
- 3. Free from cracks and fissures. If any, they must be previously repaired.
- 5. 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 P5060 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 P5060 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

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.

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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/m2 Ensure full A+pigment homogeneization
Color change	Exposed to sunlight?	UV-reaction	Use a last coat in dark grey or red
	Can it be applied without pigmentation?		Use of pigment helps to obtain a uniformappearance.

## **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 filtres+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.

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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