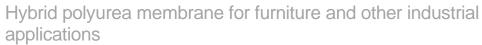
RAYSTON SPRAY P3030E



RAYSTON products/

DESCRIPTION

Rayston Spray P3030E is a 2-component polyurethane-polyurea system for elastic membrane application with crack-bridging capability.

It is an extra fast-curing system that can only be applied by hot mechanical spraying equipment. Rayston Spray P3030E can be combined with different geotextiles to obtain on site applied, seamless liners.

APPLICATIONS

Furniture, general protection. On-site applied soft liners, totally seamless. Rayston Spray P3030E can be completed with an aliphatic polyurethane topcoat to ensure UV protection.

PROPERTIES

- Crack-bridging capability. Highly elastic membrane.
- Very fast curing, using two-component spraying equipment.
- It can be pigmented.

TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION					
	Compo	nent A	Component B		
Chemical description	Polyamir	Polyamine-polyol		Aromatic isocyanate	
			prepolymer		
Physical state	Liq	uid	Liquid		
Packaging	Metal co	ntainer	Metal container		
Note: Pigment is	192	192 kg		204 kg	
delivered in a third	19,2	kg	20,4 kg		
container. See					
Pigment Spray data					
sheet for specific					
details.					
Non-volatile content	100	100%		100%	
Flash point	>10	0°C	>10	0°C	
Colour	Yellow (with	Yellow (without pigment)		low	
Density	Temperat	Density	Temperat	Density	
	ure (°C)	(g/cm³)	ure (°C)	(g/cm ³)	
	25	1.0	25	1.05	
Viscosity	Temperat	Viscosity	Temperat	Viscosity	
	ure (°C)	(mPa.s)	ure (ºC)	(mPa.s)	
	25	1200	25	3000	
A/B mixing ratio		A=100, B=105 by weight			
		A=100, B=100) by volume		
Density and viscosity	Fast p	Fast polymerization (see pot life data)			
of the mixture					
Colour	Dark yellov	v, but compon	ent A is pigm	ented by	
	addition	of pigment pa	ste (Pigment	Spray)	
	delivered with each kit of Rayston Spray P3030E.				
Pot life data	G	Gel time mixture A+B (20 g)			
		<2 s at 25°C			
	Tack free time				
		1 min			
Storage	Keep between 10°C and 30°C				
Use before	12 months after manufacturing date.				

INFORMATION ON THE FINAL PRODUCT				
Final state	Elastomeric solid membrane			
Colour	Available colours: light grey, dark grey, rust red, blue			
	(may darken during storage and exposure to sunlight).			
	Other colours under request.			
Hardness (Shore)	75A (ISO 868)			

Mechanical	Maximum elongation: 350%		
properties	Tensile strenght: 6 MPa		
	(UNE EN ISO 527-1/3)		
	Tear strength 42 N/mm		
	(UNE EN ISO 527-1/3)		
UV resistance	Rayston Spray P3030E is an aromatic isocyanate-		
	based product. A colour change is to be expected		
	under sunlight. This change does not affect its		
	mechanical properties. An additional UV protection can		
	be provided with an Impertrans/Colodur topcoat.		

SUPPORT REQUIREMENTS

To achieve a good bonding, support must be:

- 1. Compact and cohesive.
- 2. Even and regular surface.
- 3. Free from cracks and fissures. If any, they must be previously repaired.
- 4. Clean and dry, free of dust, loose particles, oils, organic residues, or laitance.

Support temperature must be between 10°C and 40°C. Support moisture must be less than 4%.

MIXING

Stir and homogenise 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 AND RECOMMENDED QUANTITIES

Rayston Spray P3030E must be applied using 2-component hot spraying equipment.

Recommended temperatures are:

- Component A: 60°C
- Component B: 70°C
- Hose: 65°C

Pressure must be adjusted to 150bar.

During spraying, check coating thickness to ensure curing evolution is correct.

Rayston Spray P3030E is applied at 1,5-2,0 kg/m2, obtaining a 1,5-2 mm thickness.

Please contact Krypton Chemical for specific application details.

CURING TIME

Rayston Spray P3030E cures to touch after a few minutes after application. Approximate hardness values are provided here as reference only (1 mm, polypropylene support, 25°C 50% RH)

Time	Hardness (Shore A)		
10min	50		
1 hr	58		
3 hr	64		
6 hr	68		
3 days	72		

RECOATING

It is recommended to obtain the right thickness with a single application.

RETURN TO SERVICE

Under most conditions (25°C, 50% rh), the membrane is resistant to light use after 10 minutes.



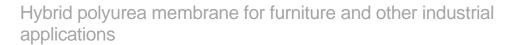
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C/ Martí i Franquès, 12 - Pol. Ind. les Tàpies 43890 - l'Hospitalet de l'Infant - Spain Tel: +34 977 822 245 - Fax: +34 977 823 977 www.kryptonchemical.com - rayston@kryptonchemical.com

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RAYSTON SPRAY P3030E





TOOL CLEANING

To keep equipment in good conditions (spraying gun, gaskets), it is recommended not to use solvents. A cleaning fluid like Rayston Fluid can be used instead. Component B must be thoroughly removed and replaced with this fluid

FAQ

Problem	Question	Answer	Solution
Does not cure or	Ratio AB	Different	Check and
remains sticky	correct?	pressure	correct pumping
			equipment
			Apply an
Gray colour		Components	aliphatic topcoat
darkens upon	Exposed?	react with UV	afterwards (eg
exposure to sun		light.	Impertrans,
			Colodur)

SAFETY

Component B of Rayston Spray P3030E contains isocyanates and Component A contains corrosive polyamines that can cause burns. Always follow the safety instructions in the Material Safety Data Sheet. As a rule, a good ventilation, protective clothing, and respiratory protection is needed (combined organic vapor filters + particles A2P). 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 contains still have some material left, do not mix with other product with no knowledge of potentially dangerous reactions. Component A and B may be mixed on a 1/1 ratio to get an inert material, but never do it in volumes larger than 5 litres to prevent a dangerous heat evolution.

OTHER INFORMATION

The information contained in this 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 to study deeply all information provided before proceeding to the use or application of any of our products, and strongly advise to conduct tests "on-site" 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.

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This data sheet supersedes previous versions.



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