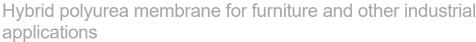
RAYSTON SPRAY P3030E





DESCRIPTION

Rayston Spray P3030Eis a 2-component polyurethane-polyurea system for elastic membrane application with crack-bridging capability. It is an extra fastcuring system that can only be applied by hot mechanical spraying equipment. Rayston Spray P3030Ecan 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						
	Component A		Component B			
Chemical description	Polyamine-polyol		Aromatic isocyanate			
			prepolymer			
Physical state	Liq	uid	Liquid			
Packaging	Metal container		Metal container			
Note: Pigment is delivered in a third container. See	192 kg		204 kg			
Pigment Spray data sheet for specific details.	19,2 kg		20,4 kg			
Non-volatile content (%)	100%		100%			
Flash point	>100°C		>100°C			
Colour	Yellow (without pigment)		Yellow			
Density	Temp (°C)	Density (g/cm3)	Temp (°0	C) Density (q/cm3)		
	20	1,0	20	1,05		
Viscosity						
Approximate values Brookfield	Temp (°C)	Viscosity (.s)	Temp (°C)	Viscosity (.s)		
	20	1200	20	3000		
	30 50	750 295	30 50	1000 400		
	70	165	70	200		

A/B mixing ratio	A=100, B=105 by weight		
•	A=100, B=100 by volume		
Density and viscosity of the AB mixture	Fast polymerization (see pot life data)		
Colour	Dark yellow, but component A is pigmented by ad-		
	dition of pigment paste (Pigment Spray) delivered		
	with each kit of Rayston Spray P3030E.		
Pot life data	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	Several available colours on request		
Hardness (shore)	75A		
Mechanical properties	Maximum elongation: 350% Tensile strenght: 6 (UNE EN ISO 527-1/3)		



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	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

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

- Coct and cohesive
- 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 temperature 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 thick-

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.

TOOL CLEANING

In order 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 throughly removed and replaced with this fluid.

Problem	Question	Answer	Solution
Does not cure or remains sticky	Ratio AB correct?	Different pressure	Check and correct pumping equip- ment
Gray colour dark- ens upon expo- sure to sun	Exposed?	Components react with UV light.	Apply an aliphatic topcoat after- wards (eg Imper- trans, Colodur)
SAFETY			

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RAYSTON SPRAY P3030E

Hybrid polyurea membrane for furniture and other industrial applications

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 general rule, a good ventilation, protective clothing and respiratory protection is needed (combined organic vapor filtres+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 containes 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 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" in order to determine their convenience for a specific project. Our recommendations do not exempt of the obligation of installers to deeply

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 data sheet supersedes previous versions. (21/08/2020)



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