

# RAYSTON SPRAY FOAM 50W

RAYSTON  
products



## On-site applied polyurethane foam

### DESCRIPTION

Rayston Spray Foam 50W is a 2-component, fast curing polyurethane foam. With a density of 50 kg/m<sup>3</sup> in free expansion. The rigid foam obtained can achieve a fire classification E according to EN13501-1

### CERTIFICATIONS

Fire certification B-Roof T3 (combined system with Rayston Fire 3:1)

### TECHNICAL DATA

#### INFORMATION ON THE PRODUCT BEFORE APPLICATION

	Component A	Component B
Physical state	Liquid	Liquid
Colour	Clear	Brown
Chemical description	Polyol mixture	Polyisocyanate
Hydroxyl number	240 mgKOH/g	-
Water content	2.6 %	-
Density 23°C	approx 1.13 g/cm <sup>3</sup>	1,21 g/cm <sup>3</sup>
Viscosity 25°C	Approx. 445 mPa.s	approx 200 mPa.s
AB Ratio	A=100, B=100 by volume	
Reaction time	Cream: 2.5 s Gel time: 5.5 s	
Packaging	Metal container: 215 kg	Metal container 250 kg
Storage and use	Keep at temperatures between 15° and 25°C indoor, keeping the containers tightly closed and protected from moisture.	

#### INFORMATION ON THE FINAL PRODUCT

Final physical state	Foam
Colour	Yellow
Density	50kg/m <sup>3</sup> (free expansion in lab) The foam's final density depends on the conditions on the workplace and the spray technique.
Compression resistance (EN-826)	>300 kPa
Fire reaction (EN 13501-1)	Euroclass E
Closed cells (DIN ISO 4590)	>95%
Thermal conductivity (EN 12667)	0.033 W/mK

### SUPPORT REQUIREMENTS

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

- Coct and cohesive (pull off test must show a minimum resistance of 1,5 N/mm<sup>2</sup>).
- Clean and dry, free of dust, loose particles, oils, organic residues or laitance.

### SPRAYING

Rayston Spray Foam must be applied using a 2-component hot spraying equipment. Recommended temperatures are 30-35°C for both components and pressure should be 50-100 bar. Best Mixing equipment should have extensible blades with overall width equivalent to 1/3 of drum diameter.

The operator must inspect the work including checking the condition of the substrate, its consistency, presence of dust, water and grease that may interfere with the adhesion, presence of dilatation joints or vents, and in case of metal substrates, the existence of an adequate corrosion protection. The substrate must be clean and degreased. For substrate with adhesion problems, a primer is advisable.

The minimum temperature of the substrate should be approx. above 20°C. In case of porous substrates, the substrate humidity will be ≤ 20%, in case of non-porous substrates, the substrate should not form superficial water condensation. Apply in successive layers of maximum thickness of 20mm. Contact Krypton Chemical for more detailed technical information.

### TOOL CLEANING

After applying the product it is important to pay attention to the machine cleaning in order to avoid a contamination in the next use of a different system with same machine.

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.

### SAFETY

Rayston Foam 50W 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 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 data sheet supersedes previous versions.***



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

Latest update: 20/09/2021

Page: 1/1