

RAYSTON SPRAY FOAM 50

RAYSTON
products



On-site applied polyurethane foam for thermal insulation

DESCRIPTION

Rayston Spray Foam50 is a 2-component, fast curing polyurethane foam for thermal insulation applications. With a density of 48-52 kg/m³ in free expansion.



CERTIFICATIONS

According to standard UNE 92120-1/1M:2003

TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION

	Component A	Component B
Physical state	Liquid	Liquid
Colour	Yellow	Brown
Chemical description	Polyol mixture	Polyisocyanate
Hydroxyl number	240-300 mgKOH/g	-
Water content	1.6-1.8 %	-
Density 25°C	1.15-1.17 g/cm ³	1,22-1.24 g/cm ³
Viscosity 25°C	<280 .s	150-250 .s
A/B Ratio	A=100, B=107 by volume	
Reaction time	Cream: 1-3 s	
	Rise time: 4-8 s	
	Cured: 7-11 s	
Packaging	Metal container: 240 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	48-52 kg/m ³ (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
Thermal conductivity (EN 12667)	<0.028 W/mK (aged)
Fire reaction (EN 13501-1)	Euroclass E
Closed cells (DIN ISO 4590)	>90%

SUPPORT REQUIREMENTS

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

1. Coct and cohesive (pull off test must show a minimum resistance of 1,5 N/mm²).
2. Clean and dry, free of dust, loose particles, oils, organic residues or laitance.

RECOMMENDED AMBIENTAL CONDITIONS

The recommended surface temperature for the application is above 5°C.

MIXING

Stir and homogenise both components before use. Recirculate both components while heating up to the required application temperatures. **Best Mixing equipment should have extensible blades with overall width equivalent to 1/3 of drum diameter.**

SPRAYING

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

Component A: 50°C

Component B: 55°C

Pressure should be 80-100 bar.

Contact Krypton Chemical for more detailed technical information.

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.

SECURITY

Rayston Foam 50 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.



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