

Rayston Spray Foam

IN SITU PROJECTION POLYURETHANE FOAM

DESCRIPTION

Rayston Spray Foam is a fast-curing, two-component polyurethane foam. For thermal insulation in applications under load. Available in densities 30-40 kg / m³ and 50-60 kg / m³.



CERTIFICATIONS

- Bureau veritas N°ES021741-CPI

TECHNICAL DATA

PRODUCT INFORMATION BEFORE APPLICATION

	Component A	Component B
Chemical identity	Polyol	Aromatic Isocyanate Prepolymer
Physical state	Liquid	Liquid
Presentation	Metal container 240 kg	Metal container 250 kg
Flashpoint	Undetermined	> 200°C
Colour	Yellow orange	Dark brown
Density	Temperature (°C) Density (g / cm ³) 25 1.03	Temperature (°C) Density (g / cm ³) 25 1.21

Viscosity

Brookfield Approximate Values	Temp (c)	Visco (l)	Temp (c)	Visco (l)
	25	260	25	260

Hydroxyl number mg KOH / g	250	Not applicable
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% of water content	1.60-1.80	NA
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% of free isocyanate	NA	31 ± 1
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A / B ratio	A = 1, B = 1 by volume	
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Free density in glass	46-50
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Kg / m ³	30-40
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Cream time (seconds)	2-6
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Thread time (seconds)	6-10
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Colour	Yellow
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Storage	Store between 10° and 25°C, in covered places, avoiding direct sunlight, keeping containers closed during storage.
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Expiration	Expiration: 12 months (component A) and 6 months (component B)
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Density Kg / m ³	≥50 (version 50/60) > 30 (versions 30/40)
Mechanical properties	Compressive strength (kPa): ≥ 250
Thermal Conductivity [W / (mK)]	≤0.028 aged
% Closed cell	> 93%
Water vapor transmission	80u + -10
Reaction to fire	Euroclass E

SUPPORT REQUIREMENTS

Support humidity 20% ± 3%
Support temperature > 5°C ± 1°C

SUPPORT PREPARATION

To obtain good penetration and adhesion, the support must always have the following characteristics:

- Level
- Cohesive / coat with a minimum resistance of 1.5 N / mm² (pull off test)
- Regular and fine appearance
- Free of fissures and cracks. If there are, they must be pre-treated.
- Healthy, clean, dry, free of dust or remnants of loose materials or particles, superficial slurries and free of fats, oils and mosses.

Concrete substrates must be prepared mechanically using an abrasive blast or scarifying to lift the surface and achieve an open pore.

The substrate is printed and leveled until a regular surface is achieved. Sharp irregularities are removed with a polisher. Remove all dust and loose material from the surface with a brush, broom and / or vacuum cleaner.

ENVIRONMENTAL CONDITIONS OF HUMIDITY AND TEMPERATURE

Air humidity: 85%
Ambient temperature > 5°C ± 1°C
Wind speed < 30 Km / h ± 5%

MIXING OR HOMOGENIZATION

Shake and homogenize the two components using suitable equipment. Recirculate the two components while heating to the temperature of prescribed application.

APPLICATION / CONSUMPTION

Rayston Spray Foam can only be applied by spray equipment suitable for hot two-component systems. The recommended temperatures are as follows:

Component A: 50°C
Component B: 55°C
The pressure should be adjusted to about 80-100 bar.
Contact Krypton Chemical for more technical application details.

CLEANING OF TOOLS

In order to keep the spraying machine materials in good condition (gun, gaskets, etc.), cleaning the equipment with solvents is not recommended. Instead, a plasticizer such as Rayston Fluid can be used. Component B must be thoroughly cleaned from those parts exposed to air and replaced by the plasticizer.

SECURITY

Rayston Spray Foam Component B contains isocyanates. Always follow the instructions on the safety sheet of this product and take the protection measures described therein. In general, adequate ventilation and / or respiratory protection is mandatory for the operator (combined particulate filter and organic vapor filter), along with protective clothing for the skin. The product should be used only for its intended uses and in the prescribed manner.

This product should only be used for industrial and professional uses. Not suitable for DIY use.

FINAL PRODUCT INFORMATION



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Empty containers should be handled with the same precautions as if they were full. Consider packaging as waste to be treated through an authorized waste manager. If the containers contain remains, do not mix them with other products without previously ruling out possible dangerous reactions. The remains of component A and B can be mixed in equal parts in order to convert them into an inert solid material but never in a volume greater than 5 liters at a time to avoid dangerous heat generation.

ADDITIONAL INFORMATION

The information contained in this TECHNICAL SHEET, as well as our advice, both written and provided verbally or through tests, are given in good faith based on our experience and the results obtained through tests carried out by independent laboratories, and without serving as guarantee for the applicator, who should take them as merely indicative references and with strictly informative value.

We recommend studying this information in depth before proceeding to the use and application of any of these products, although it is especially convenient to carry out tests "in situ" to determine the suitability of a treatment in place, with the purpose and conditions concrete that occur in each case.

Our recommendations do not exempt from the obligation that the applicator has to know in depth, the correct method of application of these systems before proceeding to their use, as well as to carry out as many preliminary tests as appropriate if there is doubt as to their suitability for any work, installation or repair, taking into account the specific circumstances in which the product will be used.

The application, use and processing of our products are beyond our control and, therefore, under the sole responsibility of the installer. Consequently, the applicator will be solely and exclusively responsible for the damages derived from total or partial non-observance of the use and installation manual and, in general, from the inappropriate use or application of these products.

This data sheet cancels previous versions.



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