RAYSTON SPRAY FOAM 8W

Two component polyurethane system

DESCRIPTION

Rayston Spray Foam 8W is a two-component (A+B) polyurethane system designed to produce open-cell semi-rigid polyurethane foam. The onlyfoaming agent of Rayston Spray Foam 8W is the CO2 created in the reaction between the components (ODP=0).

APPLICATIONS

Rayston Spray Foam 8W is designed to make internal thermal and acoustic insulation of ceilings, attics, ceilings, wooden walls, masonry and steel constructions, lightweight structure construction systems of residential, public and industrial buildings, hangars made in-situ.
The density of the sprayed foam reaches 8-10kg/m^3 depending on the thicknessof the layers and the quality of the execution. It is processed with the help of specialized projection equipment.

CHARACTERISTICS OF THE COMPONENTS

Component A: Mixture of polyols formulated in liquid form yellowish without particles in suspension.

- Density at 20ºC: 1,10 +/- 0,02 g/cm^3
- Viscosity at 20ºC: 600 +/- 100 mPa.s

Component B: Mixture of aromatic polyisocyanates especially diphenylmethane diisocyanate. Dark brown liquid without suspended particles.

- Density at 20ºC: 1,22 +/- 0,02 g/cm^3
- Viscosity at 20ºC: 350 +/- 100 mPa.s

FOAMING CHARACTERISTICS IN LABORATORY CONDITIONS

Free rise foam in laboratory conditions:

- Expansion time: 5-7 sec
- Cream time: 3-4 sec
- Foam density (25ºC): 8 kg/m^3

TECHNICAL PROPERTIES

Characteristics	Value	Method
% closed cells	CCC1	ISO4590
% open cells	95%	ASTM D2856
Resistance to vapour pressure, at 200 mm thickness	0.93 SD	EN12086
Mobile combustion heat (from PCS 4)	0.22	IN ISO1716
Sound insulation, at 195 mm + plaster (board 1*13 mm)	40 dB	EN10140-2
Sound insulation, at 195 mm + plaster (board 2*13 mm)	44 dB	EN10140-2
VOC emissions	Class A	IN ISO 16000
Other emissions	<1µg/m^3	IN ISO 16000

VALUES OF YIELD DECLARED

Characteristics	Value	Method
Reaction to fire	Euroclass F1, Bs1d0*	EN13501-1:2007
Water permeability	<13.8 kg/m^2	EN1609
Thermal conductivity	0.038 W (m.K)	EN12667-1:2002
Water vapour permeability	µ=4.6	EN12086
Durability of fire reaction after aging	Ok	EN14315-1:2013
No emissions	Ok	NF IN ISO 160003/6/9/11

PERFORMANCE TABLE

Total thickness	Thermal conductivityafter aging W7 mK	Thermal resistance R=m²K/W
50 mm	0,038	1,28
55 mm	0,038	1,45
60 mm	0,038	1,58
65 mm	0,038	1,71
70 mm	0,038	1,84
75 mm	0,038	1,97
80 mm	0,038	2,10
85 mm	0,038	2,24
90 mm	0,038	2,37
95 mm	0,038	2,50
100 mm	0,038	2,63
105 mm	0,038	2,76
110 mm	0,038	2,89
115 mm	0,038	3,03
120 mm	0,038	3,16
125 mm	0,038	3,29
130 mm	0,038	3,42
135 mm	0,038	3,55
140 mm	0,038	3,68
150 mm	0,038	3,95
160 mm	0,038	4,21
170 mm	0,038	4,47
180 mm	0,038	4,74
190 mm	0,038	5,00
200 mm	0,038	5,26

CONTAINER

Steel drums of about 200 dm^3 volume, IBC containers of about 1000 dm^3 volume.

RECOMMENDED STORAGE CONDITIONS

Store in a dry place at a temperature above 0º. It must be protected against moisture.

Storage time: 3 months in the original airtight drums. After a part of the contents of the container has been used, the rest must behermetically closed and used quickly.

TOOL CLEANING

Once the product is applied it is important to pay attention to the cleanliness of the machine to avoid contamination in the next use of a different system with the same machine.

ENVIRONMENTAL PRECAUTIONS

Empty containers should be handled with the same precautions as if they were with product. Empty containers should be treated as hazardous waste and transferred to an authorised waste manager. If the containers still have some material, do not mix it with another product without knowledge of the possible dangerous reactions. Components A and B can be mixed in a ratio of 1/1 to obtain an inert material but never in volumes greater than 5 liters to avoid a dangerous solution with heat.

ADDITIONAL INFORMATION

The information contained in this DATA SHEET, as well as our advice, both written and verbal or provided through tests, are based on our experience, and do not constitute any product warranty for the installer, which should be considered as a simple information.
We recommend that you thoroughly study all the information provided before proceeding to the use or application of any of our products, and we strongly recommend conducting "on-site" testing to determine its suitability for a specific project.

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This datasheet replaces previous versions.