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TECHNICAL DATA

Stepanfoam RS2011

WATER BLOWN SPRAY SYSTEM

Stepanfoam® RS2011 series is a two-component polyurethane water-blown spray system will produce a 32 kg/m³ sprayed-in-place polyurethane foam insulation. It is classified as a UL 94 HF-1 product in accordance with UL 94.

COMPONENT PROPERTIES

	Part A (Isocyanate)	Part B (Polyol)
Appearance	Brown Liquid	Pale brown opaque liquid
Specific Gravity @ 25°C	1.24	1.14
Viscosity @ 25°C (cps)	200	260

REACTION PROFILE

Laboratory results based on hand-mix @ 20°C

Mix ratio by VOLUME (Polyol: Iso) 100 : 100

Mix time (seconds)	2
Cream time (seconds)	4
Gel time (seconds)	7
Tack free time (seconds)	9
Free rise density (kg/m³)	32

TYPICAL PROCESSING PARAMETERS

Hydraulic Pressure, 500 psi
Hose Temperature 49°C (120°F)
Preheat Temperature 49°C (120°F)
Spray Pressure, psi
Static, A/B 900-1200
Dynamic, A/B 700-1000

This information is of general nature and is supplied without recommendation of guarantee. It does not make claim to be free from patent infringement. Properties shown are typical and do not imply specification tolerances. Era Polymers cannot accept liability for loss or damage through use. Whilst these technical details are based on expert knowledge, practical experience and laboratory testing, successful application depends upon the nature and conditions in which the products are supplied. Users must, by comprehensive testing, evaluate this product in their own application.



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TYPICAL PHYSICAL PROPERTIES

Density		Test Method ASTM D-1622
- Sprayed in place, pcf	32 kg/m ³	
- Core	32 kg/m ³	
Compressive Strength (@ 10%)		Test Method ASTM D-1621
- Parallel to the rise of foam	172 – 206 kPa	
Thermal Conductivity (initial)	0.0325 W/mK	Test Method ASTM C-518
Shear Strength	137 kPa	Test Method ASTM C-273
Tensile Strength	197 kPa	Test Method ASTM D-1623
Tumbling Friability (loss)	0.1 – 2.0 %	Test Method ASTM C421
Water Absorption		Test Method ASTM D-2842
- kg/m ²	0.05	
- % by volume	0.80	

Dimensional Stability	Test Method ASTM D-2126
Measured as % change in dimension	

	@ 38°C 100% R.H.	@ 70°C	@ 70°C / 100% RH
28 days (%)	-0.22	-3.62	-2.21

STORAGE CONDITIONS AND HANDLING

The components are sensitive to humidity and should at all times be stored in sealed drums. The recommended storage temperatures are 18-25°C, which will give a normal shelf life of 3 months. At elevated temperatures problems may arise with pressure build-up within the drums. When opening these drums extreme care must be exercised in releasing the internal pressure. **It is recommended that the drum contents should be mixed well before use.**

HEALTH AND PERSONAL PROTECTION

Before handling these chemicals please consult the Material Safety Data Sheets for the two components. Safety goggles and protective gloves should be worn whenever handling both of the chemicals. Splashes that come into contact with the skin must be wiped off immediately and the contaminated area washed with soap and water. Splashes in the eye must be flushed immediately with plenty of clean running water. If irritation occurs thereafter contact an eye specialist.

GENERAL INFORMATION

At temperatures less than 15°C the reaction rate of **Stepanfoam® RS2011** will be much slower resulting in an increase in density, and reduction in foam yield and quality. Under these conditions we recommend the use of temperature controlled conditions for drums storage.

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