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TECHNICAL DATA

Stepanfoam RS3011

HIGH YIELD RIGID SPRAY FOAM

Stepanfoam RS3011 is a two component polyurethane water-blown system, which will produce a nominal 3.0 pcf (48 kg/³) rigid spray foam system.

The product is designed for use through high-pressure plural dispensing spray equipment. RS3011 spray foam is designed to insulate tanks, roofs or ducting.

COMPONENT PROPERTIES

	Polyol	Isocyanate
Appearance	Honey coloured liquid	Brown liquid
Brookfield Viscosity (cps) @ 20°C	280	250
Specific Gravity @ 20°C	1.12	1.24

TYPICAL REACTION PROFILE

Mix ratio by weight (Polyol: Isocyanate) 100:108
Mix Ratio by volume (Polyol: Isocyanate) 100:100

	Hand-mixed @ 20°C	Machine mix*
Mix Time (seconds)	2	-
Cream Time (seconds)	2-4	-
Gel Time (seconds)	8-10	-
Tack-Free Time (seconds)	12-14	-

PROCESSING CHARACTERISTICS

*Machine conditions –
Hydraulic pressure, psi 500
Hose Temperature 49°C
Preheat Temperature 49°C,
Spray Pressure, psi
Static, Isocyanate / Polyol 900-1200
Dynamic, Isocyanate / Polyol 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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- The polyol must be mechanically mixed before use.
- The polyol and isocyanate components should be stored in a dry location to prevent moisture contamination.
- The iso and polyol drums would benefit from preconditioning close to the spray temperature.
- Spraying at less than recommended spray temperatures will result in poor quality foam.

TYPICAL PHYSICAL PROPERTIES

Nominal Free Rise Density (hand-mix)	40 kg/m ³
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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 of the polyol 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. The polyol component contains tertiary amines. Contact with the skin or eyes must be avoided. 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

1. The degree of insulation is determined by the thickness of foam applied.
2. As this product is designed for spray applications, extreme care should be taken to avoid inhalation of chemical vapours generated when spraying. Ensure adequate ventilation is available and use appropriate breathing apparatus.

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