

TECHNICAL DATA SHEET

RESISPRAY RS3000

RESISPRAY RS3000 is a self extinguishing rigid polyurethane spray system for the insulation of roofing, walling, vessels and tanks. The foam has a good surface finish with excellent cell structure and good inter-laminar adhesion. The system uses ECOMATE® as the blowing agent which has zero Ozone Depleting Potential, zero Global Warming Potential and is SNAP approved. It is ideally processed through high pressure impingement mixing, airless spray dispensing equipment such as Gusmer, Probler, Intergun, etc.

TYPICAL PHYSICAL PROPERTIES

Resin (polyol blend)	Appearance	Dark Brown Liquid
	Density	1.13 g/ml
	Viscosity @ 20°C	220 ± 50 mPa.s
Isocyanate	Composition	Technical Grade MDI
	Appearance	Dark Brown Liquid
	Density	1.22 - 1.23 g/ml
	Viscosity	250 ± 50 mPa.s

FORMULATION

100 pbm RESISPRAY RS3000
109 pbm Desmodur 44V20
100 : 100 (v/v)

TYPICAL REACTION PROFILE

Hand Mix @ 1000 RPM. Reef Altitude; 20°C	
Cream Time	2 - 4 seconds
Gel Time	10 - 12 seconds
Rise Time	24 - 26 seconds
Tack Free	13 - 16 seconds
Free Rise Density (core)	24 - 26 (reef)
	27 - 30 kg/m ³ (coastal)
	30 - 35 kg/m ³ (reef)
Typical Applied Density (core)	33 - 38 kg/m ³ (coastal)
Ideal Component Temperature	30 – 35 °C
Minimum Substrate Temperature	15°C

The above processing characteristics would be expected using a low pressure machine without heating. Using a high pressure dispensing machine with primary and line heating would speed up the system. The overall applied density varies as a result of the ambient and substrate temperatures as well as the number of layers required to build up to the specified section thickness.



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STORAGE STABILITY

The product must be stored out of direct sunlight and weather. The containers must be kept sealed against moisture at all times in storage. Ideal storage temperature is approximately 20°C. Under these conditions the product will remain stable for 6 months.

SAFETY PRECUATIONS DURING HANDLING

RESISPRAY RS3000 Polyol is a blend of Polyether polyols and other components which include a small percentage of tertiary aliphatic amines.

Because of its alkaline character, RESISPRAY RS3000 Polyol may cause slight to moderate irritation when it comes into contact with the skin, the eyes and the mucous membranes, particularly if this contact is prolonged.

Safety goggles and impermeable protective gloves should always be worn if there is a risk of direct exposure when handling RESISPRAY RS3000 Polyol.

Splashes that come into contact with skin, must be wiped off immediately and the contaminated areas must be thoroughly washed with soap and water. Subsequently these areas should be treated with a good barrier cream.

To prevent further contact with the skin, contaminated clothing should be changed immediately and thoroughly cleaned before reuse.

The product must be kept away from foodstuffs.

Anyone involved in the spray application of the system must familiarize themselves with the safety precautions required of sprayed polyurethane foam.

DISAVOWAL

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