

### SHAKUN POLYOL R100F

Shakun Polyol R100F is a rigid polyurethane system for the insulation of roof panels, wall panels, vessels, and tanks. The foam has a good surface finish with excellent cell structure and good inter-laminar adhesion. The system uses HCFC 141B as the blowing agent. It is ideally processed through high-pressure impingement mixing.

### PRODUCT SPECIFICATION

| SI. NO. | CHARACTERISTICS | UNIT | SPECIFICATION |
|---------|-----------------|------|---------------|
| 1       | Appearance      | None | Liquid        |
| 2       | Colour          | None | Clear Yellow  |

### REACTION SPECIFICATION

| SI. NO. | CHARACTERISTICS            | UNIT    | SPECIFICATION |
|---------|----------------------------|---------|---------------|
| 1       | Ideal Operated Temperature | Celsius | 21°C          |
| 2       | Mix Ratio (Polyol : MDI*)  | None    | 100 : 120     |
| 3       | Cream Time                 | Seconds | 20-30         |
| 4       | Gel Time                   | Seconds | 80-85         |
| 5       | Track Free Time            | Seconds | 100-110       |

\* Huntsman Suprasec 5005 or Bayer Desmodour 44v22L or Equivalent MDI (Isocyanate)

The above processing/reaction 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 because of the ambient and substrate temperatures as well as the number of layers required building up to the specified section thickness.

## FOAMING SPECIFICATION

|   |                   |     |       |
|---|-------------------|-----|-------|
| 1 | Free Rise Density | g/L | 23-27 |
| 2 | Moulded Density   | g/L | 38-43 |

The above foam characteristics can be altered according to the user's expectations.

## 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 PRECAUTIONS DURING HANDLING

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

- Because of its alkaline character, Shakun Polyol may cause slight to moderate irritation when it is exposed to the skin, the eyes, and the mucous membranes.
- Safety goggles and impermeable protective gloves should always be worn if there is a risk of direct exposure when handling Shakun Polyol.
- Splashes that are exposed to skin must be wiped off immediately and the contaminated areas must be thoroughly washed with soap and water.
- Affected 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 food items.
- Anyone involved in the application of the system must familiarize themselves with the safety precautions required of rigid polyurethane foam.

## DISCLAIMER

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