

### RigiChem® R01A

**Application**

Rigichem R01A is a fully blended polyurethane system. The product is designed using HCFC 141b as the blowing agent. The system can be used specifically for the production of pour-in-situ application. The system works very well even if it is hand-mixed. The foam is characterized by excellent flowability, dimensional stability and low thermal conductivity.

**Chemical Properties**

**RigiChem R01A (Blended Polyol for manual)**

Appearance	Light Brown Liquid
Specific Gravity @25C	1.12 g/cm <sup>3</sup>
Viscosity @25C	250 ± 50 cps

**RigiChem RB (Isocyanate)**

Appearance	Dark Brown Liquid
Specific Gravity @25C	1.23 g/cm <sup>3</sup>
Viscosity @25C	200 ± 30 cps

**Typical Reactivity Data:**

Method	Hand mix 15sec at 2000 rpm
Chemical Temperature	25°C
Cream Time	33 – 40 sec
Gel Time	160 – 170 sec
Tack Free Time	250 – 260 sec
Free Rise density	34 – 36 kg/m <sup>3</sup>

**Typical Physical Properties:**

Property	Test Standard	Results
1. Overall Moulded Density	ASTM D 1622,kg/m <sup>3</sup>	45 - 55
2. Moulded Core Density	ASTM D 1622,kg/m <sup>3</sup>	38 - 48
3. Compressive Strength	ASTM D 1621,kPa	260 - 280
4. Dimensional Stability Condition: -30°C+70C 90RH for 3days	ASTM D2126, % -30°C +70°C	Length : -0.06% Width : 0.00% Thickness : -0.04%
5. Thermal conductivity Closed Cell Content	ASTM C518, W/mK ASTM D2856, %	0.021 96
6. Water Absorption	ASTM C209 If immersed in water bath at 23°C for 2hrs	0.10.3 Length : -0.32% Width : 0.00% Thickness : -0.14%

### RigiChem® R01A

#### Storage of Materials

The materials are hygroscopic and hence users are advised to avoid using partial content of the RigiChem R01A Blended Polyol. **In case of partial usage**, the drums must have sealed tightly to prevent the ingress of moisture.

RigiChem R01A has a shelf life of six months from the date of manufacture and should be stored at ambient temperatures (20°C -30°C). It is best to ensure that the mixture is thoroughly mixed before use.

#### General Safety Precautions:

The following guidelines are applicable for both polyol and isocyanate

#### Handling:

Safety goggles, protective gloves and overalls must be worn when working with these chemicals

#### Ventilation:

The product must be used in a well- ventilated area.

#### **First aid measures:**

**Inhalation:** In the case of excessive inhalation, remove the patient immediately from exposure when the patient becomes dizzy or light headed.

**Skin Contact:** Wash skin immediately with plenty of water and soap and water. If any skin reaction symptoms are noticed, seek medical attention.

**Eye Contact:** In case of the chemical contact with the eyes, immediately wash eyes holding eyelids apart with plenty of water at least for 10 min. Obtain medical attention.

**Ingestion:** Obtain medical attention Do not induce vomiting.

The information provided in this Data Sheet is intended as a general guide and given in good faith but without warranty. No warranty or guarantee expressed or implied can be made regarding the performance and stability of any products because the manner of use and the conditions of storage and handling are beyond our control.