



## PRODUCT DATA SHEET

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### UrePac® Rigid 4 100

#### **Product Description**

UrePac® Rigid 4 100 is a rapid cure, two component polyurethane spray foam based on polyether polyol and MDI isocyanate. The system has been developed with low viscosity so it can be sprayed through low and high pressure equipment. The foam was designed for use as a high performance insulation foam.

#### **Part A (Polyol) Specification:**

210kg per 205lt Open top drum.

<b>Specific Gravity (22°C):</b>	1.18 +- 0.02 g/ml
<b>Viscosity (Brookfield) (22°C):</b>	300 +- 100 m.Pas
<b>Appearance:</b>	Clear Straw liquid

#### **Part B (Isocyanate) Specification:**

250kg per 205lt Closed top drum.

<b>Specific Gravity (22°C):</b>	1.23 +- 0.02 g/ml
<b>Viscosity (Brookfield) (22°C):</b>	210 +- 70 m.Pas
<b>Appearance:</b>	Clear Brown liquid

#### **Processing Conditions:**

##### **Temperature**

The temperature of both components should be heated in the spray unit to at least 25°C to ensure that a sufficient mix and reaction is obtained. The optimal temperature of the components should be between 35-45°C to achieve repeatable results of the finished product.

##### **Application**

The surface to be sprayed should be clean, dry and free from oil and grease to prevent delamination. For improved adhesion a suitable primer should be used to prepare the surface. It is recommended that regular calibration shots are conducted to ensure that the correct mix ratio is being achieved. For high pressure units a minimum pressure of 1500psi is required to get sufficient mixing of the components.

## Cured Foam Properties

<b>Mix Ratio</b>	<b>100 Polyol (Part A): 120 Isocyanate (Part B) (w/w)</b> <b>100 Isocyanate: 100 Polyol (v/v)</b>
<b>Cream Time (22°C):</b>	4+-1 seconds
<b>String time (22°C):</b>	15+-1 seconds
<b>Rise time (22°C):</b>	23+-2 seconds
<b>Free Rise Density (22°C):</b>	100+-10 Kg/m <sup>3</sup>

Obtained from Laboratory cup test

<b>Core Density:</b>	95+-5 Kg/m <sup>3</sup>
<b>Closed Cell Content:</b>	95-97%
<b>K Value:</b>	0.025+-0.002 W/mK
<b>Compressive Strength:</b>	1000+-100 KPa
<b>Water Absorption:</b>	1-2% by volume

## Storage and Handling

**Component A** should be stored under dry conditions out of direct sunlight between 18 and 25°C. **Component B** should be stored separately from *Component A*, but under the same conditions.

- Both products will have a minimum shelf life of six months when stored under these conditions.
- It is recommended that **Component A** be mixed prior to use.
- If **Component A** is held in storage tanks, the contents must be mixed at least once per day.

Please refer to the Material Safety Data Sheet (MSDS) for further advice on the safe handling of these products.

## Transport Classification

<b>Component A:</b>	None
<b>Component B:</b>	None