



PRODUCT DATA SHEET

Urepac™ Rigid 16 44

Product Description

Urepac™ Rigid 16 44 is a two component polyurethane rigid foam system based on polyether polyol and the MDI isocyanate, Urepac™ 2001, designed for use as a pour-in-place foam for general purpose thermal insulation applications.

The blowing agent is mainly CO₂, generated by the reaction between the water in the polyol formulation and the MDI component, with additional foaming generated by the inclusion of a proprietary blowing agent at a low level, so that the foam produced is both zero ODP and has zero GWP.

The system has been developed so it can be poured through either low or high pressure dispensing equipment.

Part A (Polyol) Specification:

210 kg per 205lt Closed top drum or 1050 kg per 1000 litre IBC.

Specific Gravity (22°C):	1.05 +- 0.02 g/ml
Viscosity (Brookfield) (22°C):	700 +- 100 m.Pas
Appearance:	Clear Straw liquid

Part B (Isocyanate) Specification:

250kg per 205lt Closed top drum or 1250 kg per 1000 litre IBC.

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

Processing Conditions:

Temperature

The material temperatures should be maintained at 20 - 25°C.

The temperature of the mould should be 45 - 55°C.

Cured Foam Properties

Mix Ratio	100 Polyol (Part A): 110 Isocyanate (Part B) (w/w) 100 Polyol: 100 Isocyanate (v/v)
Cream Time (22°C):	16 +- 2 seconds
String time (22°C):	120 +- 10 seconds
Rise time (22°C):	200 +- 20 seconds
Free Rise Density (22°C):	50+- 2 Kg/m ³

Obtained from Laboratory cup test

Core Density:	52 +- 2 Kg/m ³
Closed Cell Content:	90-95%
K Value:	0.0225 +- 0.002 W/mK
Compressive Strength:	240+-10 KPa
Water Absorption:	< 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

Component A:	None
Component B:	None