



PRODUCT DATA SHEET

Urepac™ Rigid 90 43

Product Description

Urepac™ Rigid 90 43 is a low reactivity, two component polyurethane rigid foam based on polyether polyol, PMDI isocyanate and zero ozone depletion potential (ODP) blowing agent technology (HFC).

The system has been developed so it can be dispensed through low and high pressure equipment or hand-mixed and poured.

The foam was designed for use as a high performance block foam with a core density of around 34 kg/m³ for general purpose thermal insulation applications.

Part A (Urepac™ Rigid 90 43) Specification:

1100kg per 1000L IBC, 220kg per 205lf Closed top drum.

Specific Gravity (22°C):	1.10 +- 0.02 g/ml
Viscosity (Brookfield) (22°C):	400 +- 100 m.Pas
Appearance:	Clear Straw liquid

Part B (Urepac™ 2001 PMDI) Specification:

250kg per 205lt Closed top drum.

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 temperature of both components should be maintained at 20 - 25°C to ensure that a sufficient mix and reaction is obtained. The temperature of the mould boxes should be maintained between 25-30°C to achieve optimal finished product.

Cured Foam Properties

Mix Ratio 100 Polyol (Rigid 90 43): 140 PMDI (UrePac 2001) (w/w)

Cream Time (22°C): 90+-10 seconds
String time (22°C): 300+-20 seconds
Rise time (22°C): 420+-20 seconds
Free Rise Density (22°C): 40-45 Kg/m³

Obtained from Laboratory cup test

Core Density: 39+-1 Kg/m³
Closed Cell Content: 90-95%
K Value: 0.022+-0.002 W/mK
Compressive Strength: 200+-10 KPa
Water Absorption: <1% by volume
Temperature Range: -30 to 120°C

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