



PRODUCT DATA SHEET

Urepac™ Rigid 55 40

Product Description

Urepac™ Rigid 55 40 is a slow cure, two component polyurethane rigid foam based on polyether polyol, MDI isocyanate and zero ozone depletion potential (ODP) HFC blowing agent technology. The system has been developed so it can be dispensed by hand-mix technique using 1:1 by volume mix ratio, or through low and high pressure equipment. The foam was designed for use as a high performance block foam and pour in place foam for general purpose thermal insulation applications.

Part A (Polyol) Specification:

210 kg per 205lt Closed top drum.

Specific Gravity (22°C):	1.17 +- 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.

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

Cured Foam Properties

Mix Ratio	100 Polyol (Part A): 105 Isocyanate (Part B) (w/w) 100 Polyol: 100 Isocyanate (v/v)
Cream Time (22°C):	60 +- 10 seconds
String time (22°C):	240 +- 20 seconds
Rise time (22°C):	350 +- 30 seconds
Free Rise Density (22°C):	40+- 2 Kg/m ³

Obtained from Laboratory cup test

Core Density:	36 +- 2 Kg/m ³
Closed Cell Content:	90-95%
K Value (initial):	0.021 +- 0.002 W/mK
Compressive Strength:	240+-10 KPa
Water Absorption:	3-5% 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