



PRODUCT DATA SHEET

UrePac® Rigid 3 48

Product Description

UrePac® Rigid 3 48 is a rapid cure, two component polyurethane spray foam based on aromatic polyester and 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 thermal insulation foam with high Compressive Strength properties making it particularly suitable for load-bearing applications such as under-slab insulation

Part A (Polyol) Specification:

220kg per 205lt Open top drum.

1100kg per 1000L IBC

Specific Gravity (22°C):	1.18 +- 0.02 g/ml
Viscosity (Brookfield) (22°C):	800 +- 200 m.Pas
Appearance:	Clear Straw liquid

Part B (Isocyanate) Specification:

250kg per 205lt Closed top drum.

1250kg per 1000L 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 temperature of both components should be heated in the spray unit to at least 40°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

Mix Ratio	100 Polyol (Part A): 110 Isocyanate (Part B) (w/w) 100 Isocyanate: 100 Polyol (v/v)
Cream Time (22°C):	3 +-1 seconds
String time (22°C):	8 +-1 seconds
Rise time (22°C):	12 +-2 seconds
Free Rise Density (22°C):	48 +- 3 Kg/m ³

Obtained from Laboratory cup test

Core Density (ASTM D1622):	45 +-3 Kg/m ³
Dimensional Stability (ASTM D2126):	Pass (<5%)
Closed Cell Content (ASTM D6226):	90-95%
K Value (ASTM C518):	0.022 +- 0.002 W/mK
Compressive Strength (ASTM D1621):	280+-10 KPa
Water Absorption (ASTM D2842):	2-4% by volume
Flammability (ISO 3582):	Self Extinguishes
Burn Length	15 mm
Extinguishing Time	10 seconds
Burn Rate:	0.21 mm/sec

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.

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