

UrePac[®] Flex 12 50

Product Description

UrePac[®] Flex 12 50 is a two component flexible foam system based on polyether polyol and MDI. The system has been developed to produce a cold cure, resilient foam with a latex-like feel for products such as moulded office furniture cushions. The foam is water-blown and contains no auxiliary blowing agents. The moulded foam hardness can be varied by varying the polyol : MDI mix ratio and foam density.

Part A (Polyol) Specification:

210kg per 205lt Open top drum.

Specific Gravity (22°C):	1.05 +- 0.02 g/ml
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Viscosity (Brookfield) (22°C):	1100 +- 100 m.Pas
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Appearance:	Clear water white liquid
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Part B (Isocyanate) Specification:

240kg per 205lt Closed top drum.

Specific Gravity (22°C):	1.21 +- 0.02 g/ml
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Viscosity (Brookfield) (22°C):	150 +- 20 m.Pas
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Appearance:	Clear Amber liquid
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Processing Conditions:

Temperature

The temperature of both components should be heated in the day tanks to at least 20-25°C to ensure that a sufficient mix and reaction speed is obtained. The optimal temperature of the moulds should be between 40- 45°C to achieve optimal skin definition and repeatable results of the finished product.

Application

The mould should be clean, dry and free from oil and grease to prevent skin imperfections or foam collapse. 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. The entire pour should be completed before the foam begins to rise to achieve the best foam structure.

Mixed System Specification:

Mix Ratio:	100 Polyol (Part A): 50 - 60 Isocyanate (Part B) (w/w)
Cream Time (22°C):	13+-2 seconds
String time (22°C):	75+-5 seconds
Rise time (22°C):	110+-10 seconds
Free Rise Density (22°C):	52+-2 Kg/m ³

Obtained from Laboratory cup test

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