

Nivapol Polem A 41 RF

PIP4 1E25

Characterization and Type

2-Component polyurethane system.

Delivery form

Part A:

7,5 kg yellow liquid viscous liquid.

Part B:

5 kg brown polymeric MDI based liquid.

Use

Pour-in Place foam. The A-component is stirred prior to use. The B-component is pour into the container with the A-component. Directly after pouring the two components together, they are stirred vigorously for 20 seconds with a suitable stirring devise. The reactive liquid is then poured in the calculated amount into the cavity. Notice that the correct amount of foam liquid should be placed within 45 seconds from the start of mixing. If a smaller amount of foam is to be used than the full set size, then the A-component should stirred prior to weighing of the smaller set size.

Polem A 41RF is a fully formulated polyurethan system and should be used as is in the correct mixing ratio as it is supplied in.

Storage

The components should be stored between +5°C and 30°C. The components should be acclimatized prior to use.

Important note

Nivapol is warranting the properties of the product and that is upholds the properties as stated in this datasheet. The properties are however measured under laboratory conditions and these conditions can be different to those found at a construction site.

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Property	Value	Method
Mixing ratio	A:B 7,50 kg: 5 kg	Hand mixing
Cream time@20°C	45 ± 10 seconds	Hand mixing
String gel time@20°C	240 ±30 seconds	Hand mixing
Free rise density @20°C	40 ± 3 g/l	Hand mixing
Typical data for final product		
Density	40 g/l ISO 844	
Compression, strenght	Parallel to flow direction 160 kPa ISO 845 Perpendicular to flow direction, 1: 150 kPa ISO 845 Perpendicular to flow direction, 2: 150 kPa ISO 845	
Compression, module	Parallel to flow direction, 5.0 MPa ISO 845 Perpendicular to flow direction, 1: 3.0 MPa ISO 845 Perpendicular to flow direction, 2: 3.0 MPa ISO 845	
Shear, strenght module	100 kPa ISO 1922 2,0 kPa ISO 1922	
Tensile, strenght module	240 kPa ISO 1926 6,0 kPa ISO 1926	
Dimension stability	48 (h) at -30°C: -0,2 Vol. % ISO 2796 48 (h) at +100°C: -2,0 Vol. % ISO 2796	
Insulation property Lambda-value at 10°C	0,0025 W/m·K ISO 8301/ASTM C518 (foamed in block)	
Closed cell	Min. 90% ISO 4590	
Reaction to fire	Class E-s2d0 ISO 11925-2 & ISO 13501-1 Class B2 DIN 4102-1	
Global Warming Potential (GWP)	0	
Ozone Depletion Potential (ODP)	0	
Water uptake	<0.01%	
Renewable	21%	

Please note The above technical data is a guidance reference only. Different values can be achieved depending on the choice and ratio of the MDI. Careful testing should be conducted to verify final system.

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