#### **Technical Information**



general

Sovermol® 818 is a polyol used in the manufacturing of polyurethanes

- Low viscosity universal polyol
- Good self-leveling properties
- Extremely hydrophobic
- Good bonding properties
- Excellent flexibility at temperatures below 0°C
- High renewable raw material content

The product might be slightly cloudy - this does not affect the product properties in a negative way.

chemical nature

Oleochemical polyester

### **Properties**

physical form Yellow, low viscosity fluid

**shelf life** When stored under the usual appropriate storage conditions, the product

can be stored for at least 1 year.

typical properties (no supply specification)

Water content (ISO 4317)	< 0.2%
Acid number (ISO 660)	< 3.0 mg KOH/g
Hydroxyl number (ISO 4326)	223 – 248 mg KOH/g
Viscosity (dynamic) (25 °C) (ISO 12058-1 (97))	650 – 850 mPa⋅s
Density (25 °C)	0.975 - 1,02 g/cm <sup>3</sup>

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# **Application**

In combination with Polymer MDI Sovermol® 818 can be used for the production of 2-pack coating and casting materials. Due to the hydrophobic properties and its low viscosity, this material is therefore eminently suitable for electro potting compounds.

In addition, Sovermol® 818 is strongly water repellent, which results in less sensitivity to moisture while curing.

Application example (without filler)	100 g Sovermol® 818 5 g Zeolith paste 57 g Polymer MDI* *e.g. Lupranate M 20 S – BASF Polyurethanes  Gel time at 23°C approx. 84 min (30g mass).	
Shore hardness (ISO 868) (storage/room temperature)	А	D
after 1 day after 2 days after 3 days	60 78 -	18 31 -
after 7 days after 14 days after 28 days	94 96	- 50 60

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#### **Technical Data**

after 1 day after 2 days

### Sovermol® 818 in combination with

### Polymer MDI\*

### Shore D hardness RT (ISO 868)

after 3 days
after 7 days
after 14 days
after 28 days
Mixing votice
Mixing ratio
Geltime in hours Coesfield
Tensile strength in MPa
(ISO 527-3 Typ5))
Elongation in % (ISO 527-3 Typ5)
Tear resistance in N/mm
(ISO 34-1)
Bending strength in MPa
(DIN EN ISO 178)
Impact resistance in mJ/mm²
(DIN 53453)

18 31			
31			
-			
-			
50			
50 60			

100:57 01:24 18 58 64 6

3

### Sovermol® 818 shear strength according to ISO 4587/625mm²

# Polymer MDI\*

# MDI (Carbodiimid - modified)\*\*

Amount = Geltime adjustment to 5-10 min		
100:57	100:68	
00:05 h – 00:10 h	00:05 h – 00:10 h	
4,4 (C)	2.5 (C)	
1.7 (C)	5.7 (C)	
6.6 (C)	>6.2 (C)	
0.06 (C)	0-05 (C)	
3.5 (MF)	3.2 (MF)	
7.7 (MF)	8.0 (MF)	

(C) = cohesion failure / (MF) = material failure

<sup>\*</sup> e.g. Lupranat M 20 S, BASF Polyurethanes

<sup>\*</sup> e.g. Lupranat M 20 S, BASF Polyurethanes

<sup>\*\*</sup> e.g. Supraspec 2010, Fa. Huntsman Polyurethanes

#### Registration / Regulatory Information

#### **Regulatory Status**

AICS (Australia)	0	
ENCS (Japan)	0	
EINECS (EU)		
NDSL (Canada)		
KECI/ECL (Korea)	0	
TSCA (USA)		
IECSC (China)		
PICCS (Philippines)	0	
	_	
		Yes
	0	No

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