

# Sovermol<sup>®</sup> 819



## general

Sovermol<sup>®</sup> 819 is a polyol used in the manufacturing of polyurethanes

- Low viscosity universal polyol
- Good self-leveling properties
- Extremely hydrophobic
- Good bonding properties
- Raw materials are registered in EU-Directive 2002/72/EG resp. 2007/19/EC as amended
- 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)	230 – 250 mg KOH/g
Viscosity (dynamic) (25 °C) (ISO 2555)	750 – 950 mPa·s
Density (25 °C) (ISO 2811-3)	0.96 – 1.02 g/cm <sup>3</sup>

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## Application

In combination with Polymer MDI Sovermol® 819 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® 819 shows particular water repellency, which results in less sensitivity to moisture while curing.

### Application example (without filler)

100 g Sovermol® 819

5 g Zeolith paste

58 g Polymer MDI\*

\*e.g. Lupranate M 20 S – BASF Polyurethanes

Gel time at 23°C approx. 60 min (30g mass).

### Shore hardness (ISO 868) (storage/room temperature)

A D

after 1 day	69	24
after 2 days	85	39
after 3 days	-	-
after 7 days	-	-
after 14 days	96	62
after 28 days	97	64

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## Technical Data

### Sovermol® 819 in combination with

#### Polymer MDI\*

#### Shore D hardness RT (ISO 868)

after 1 day	24
after 2 days	39
after 3 days	-
after 7 days	-
after 14 days	62
after 28 days	64

Mixing ratio	100:58
Geltime in hours Coesfield	01:00
Tensile strength in MPa (ISO 527-3 Typ5))	18
Elongation in % (ISO 527-3 Typ5)	66
Tear resistance in N/mm (ISO 34-1)	70

\* e.g. Lupranat M 20 S, BASF Polyurethanes

### Sovermol® 819 shear strength according to ISO 4587/625mm<sup>2</sup>

Polymer MDI*	MDI (Carbodiimid - modified)**	
Fomrez UL 28 (10%)	Amount = Geltime adjustment to 5-10 min	
Mixing ratio	100:58	100:69
Gel-time in hours Coesfield	00:05 h – 00:10 h	00:05 h – 00:10 h
Aluminium (AIMG1) in MPa	2,6 (C)	4,1 (C)
Copper (SF-CuF24) in MPa	1,5 (C)	5,7 (C)
Steel (ST1403) in MPa	<u>7,7</u> (C)	1,7 (C)
Polyethylene (Simona) in MPa	0,07 (C)	0,06 (C)
PVC (Kömadur ES) in MPa	<u>3,8</u> (MF)	<u>3,8</u> (MF)
Wood (Beech) in MPa	3,8 (MF)	<u>7,6</u> (MF)

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

\* e.g. Lupranat M 20 S, BASF Polyurethanes

\*\* e.g. Supraspec 2010, Fa. Huntsman Polyurethanes

## Registration / Regulatory Information

## Regulatory Status

AICS (Australia)	<input checked="" type="radio"/>	
ENCS (Japan)	<input checked="" type="radio"/>	
EU (Europe)	<input checked="" type="radio"/>	
DSL (Canada)	<input checked="" type="radio"/>	
KECI/ECL (Korea)	<input checked="" type="radio"/>	
TSCA (USA)	<input checked="" type="radio"/>	
IECSC (China)	<input checked="" type="radio"/>	
PICCS (Philippines)	<input checked="" type="radio"/>	
	<input checked="" type="radio"/>	Yes
	<input type="radio"/>	No

**Safety**

When handling these products, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

**Note**

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

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