

# Sovermol® 860



## general

Sovermol® 860 is a polyol used in the manufacturing of polyurethanes.

- Gel time prolonger
- Reactive diluent
- Hydrophobic
- Good adhesive properties on metal surfaces
- High renewable raw material content
- Contains epoxy groups (EP-O = 0.3 to 1.4%)

## chemical nature

Aliphatic polyol

## Properties

### physical form

Low viscous, yellow to brown liquid

### 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 (DGF C-III 13A)	< 0.2%
Acid number (DGF C-V 2)	< 1.5
Hydroxyl number (DGF CV 17A,B)	190 – 220 mgKOH/g
Viscosity (20 °C) (DIN 53015)	200 - 650 mPa·s
Density (20 °C) (DGF C-IV 2B (52))	0.980 - 1.02 g/cm <sup>3</sup>
Epoxid oxygene (93004401)	0.3 – 1.4%

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## Application

In combination with Polymer MDI Sovermol® 860 can be used for the production of 2 pack coating and casting materials. By adding Sovermol® 860 the workability time for the PUR system is exceeded.

### Mixing Formulation (without filler)

100 g Sovermol® 860
5 g Zeolith paste
51 g Polymer MDI*

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

Gel time at 23°C approx. 370 min (30g mass).

### Shore hardness (storage/room temperature)

	A	D
after 1 day	-	-
after 2 days	-	-
after 3 days	-	-
after 7 days	-	-
after 14 days	85	-
after 28 days	97	62

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## Technical Data

### Sovermol® 860 in combination with

	Polymer MDI*	MDI (Carbodiimid- modified)**
<b>Shore A/D hardness RT (ISO 868)</b>		
after 1 day	-/-	2/-
after 2 days	-/-	24/-
after 3 days	-/-	32/-
after 7 days	-/-	45/-
after 14 days	85/-	74/-
after 28 days	97/62	85/38
<b>Mixing ratio</b>	100:51	100:58
<b>Geltime in hours Coesfield</b>	06:10	10:18
<b>Tensile strength in MPa (ISO 527-3 Typ5)</b>	13	10
<b>Elongation in % (ISO 527-3 Typ5)</b>	17	60
<b>Tear resistance in N/mm (ISO 34-1)</b>	48	60
<b>Bending strength in MPa (DIN EN ISO 178)</b>	6	-
<b>Impact resistance in mJ/mm<sup>2</sup> (DIN 53453)</b>	9	-

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

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

## Registration / Regulatory Information

### Regulatory Status

AICS (Australia)

ENCS/MITI (JP)

EU (EU)

TSCA (USA)

DSL (Canada)

PICCS (Philippines)

IECSC (China)

KECL/ECL (Korea)

Yes

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

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