

# Sovermol® 1085

## general

Sovermol® 1085 is a polyol used in the manufacturing of polyurethanes

- Excellent bonding performance on metal substrate
- High renewable raw material content
- Contains free epoxide oxygen groups

## chemical nature

Aliphatic triglyceride

## Properties

### physical form

Yellow, medium viscous 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<br>(DGF C-III 13A)      | < 0.15%                       |
| Epoxide oxygen<br>(93004401)          | 2.8 - 3.3%                    |
| Hydroxyl number<br>(DGF C-V 17A,B)    | 85 – 125 mg KOH/g             |
| Viscosity (25 °C)<br>(ISO 2555)       | 1000 – 1500 mPa·s             |
| Density (20 °C)<br>(DGF C-IV 2B (52)) | 0.95 – 1.05 g/cm <sup>3</sup> |

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## Application

In combination with polymeric MDI, Sovermol® 1085 can be used as reactive component for the production of flexible 2 pack coatings, castings and adhesives. Based on the low reactivity use as gel time prolonger for 2K systems are also possible.

In addition, Sovermol® 1085 is strongly water repellent, which results in less sensitivity to moisture while curing.

## Mixing Formulation (without filler)

|                      |
|----------------------|
| 100 g Sovermol® 1085 |
| 5 g Zeolith paste    |
| 24 g Polymer MDI*    |

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

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

|               | A | D  |
|---------------|---|----|
| after 1 day   | - | 9  |
| after 2 days  | - | 17 |
| after 3 days  | - | 24 |
| after 7 days  | - | 35 |
| after 14 days | - | 39 |
| after 28 days | - | 40 |

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## Technical Data

### Sovermol® 1085 in combination with

#### Polymer MDI\*

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

|               |      |
|---------------|------|
| after 1 day   | -/9  |
| after 2 days  | -/17 |
| after 3 days  | -/24 |
| after 7 days  | -/35 |
| after 14 days | -/39 |
| after 28 days | -/40 |

|  |        |
|--|--------|
| Mixing ratio                                 | 100:24 |
| Geltime in hours Coesfield                   | 04:42  |
| Tensile strength in MPa<br>(ISO 527-3 Typ5)) | 4      |
| Elongation in % (ISO 527-3 Typ5)             | 33     |
| Tear resistance in N/mm<br>(ISO 34-1)        | 3      |

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

## Registration / Regulatory Information

### Approvals

#### Regulatory Status

AICS (Australia)  
 ENCS (JP)  
 EINECS (EU)  
 TSCA (USA)  
 DSL (Canada)  
 PICCS (Philippines)  
 IECSC (China)  
 KECL/ECL (Korea)  
 NZIoC (New Zealand)

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#### 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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