

# Sovermol® 650NS

## general

Sovermol® 650NS is a polyol used in the manufacturing of polyurethanes

- High saponification stability
- High tear resistance
- Polyol for solvent-based printing inks

## chemical nature

Dimer diol /  
Trimer triol

## Properties

### physical form

Yellow, 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 (DGF C-III 13A)	< 0.1%
Acid number (DIN EN ISO 2114 (2002))	< 1.0
Hydroxyl number (DIN 53240-98)	186 – 206 mg KOH/g
Viscosity (dynamic) (25 °C) (ISO 2555)	3700 – 4600 mPa·s
Density (20 °C) (DIN 51757)	0,91 – 0,93 g/cm <sup>3</sup>
Color number (DIN ISO 4630)	1 -7

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## Application

In combination with Polymer MDI Sovermol® 650 NS can be used for the production of 2K pack coating and foam applications, in floorings and for adhesives.

In addition, Sovermol® 650NS shows particular water repellency, which results in less sensitivity to moisture while curing.

## Mixing Formulation (without filler)

100 g Sovermol® 650NS
5 g Zeolith paste
46 g Polymer MDI*

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

Gel time at 23°C approx. 10 min (30g mass).

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

	A	D
after 1 day	85	39
after 2 days	90	48
after 3 days	-	-
after 7 days	-	-
after 14 days	94	51
after 28 days	94	54

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## Technical Data

### Sovermol® 650NS in combination with

	Polymer MDI*	MDI (Carbodiimid - modified)**
<b>Shore A/D hardness RT (ISO 868)</b>		
after 1 day	85/39	91/45
after 2 days	90/48	-
after 3 days	-	-
after 7 days	-	-/52
after 14 days	94/51	-/60
after 28 days	94/54	-/60
Mixing ratio	100:46	100:53
Geltime in hours Coesfield	00:10	00:10
Tensile strength in MPa (ISO 527-3 Typ5))	13	14
Elongation in % (ISO 527-3 Typ5)	64	3
Tear resistance in N/mm (ISO 34-1)	83	55

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

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

## Registration / Regulatory Information

### Regulatory Status

AICS (Australia)  
 ENCS (JP)  
 EINECS (EU)  
 TSCA (USA)  
 NDSL (Canada)  
 PICCS (Philippines)  
 IECSC (China)  
 KECL/ECL (Korea)

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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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