

# Sovermol® 890

## general

Sovermol® 890 is a polyol used in the manufacturing of polyurethanes

- Universal polyol
- Shore D Hardness ~ 70
- High renewable raw material content
- Low reactivity (see page 2)

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

## chemical nature

Branched polyether/polyester

## Properties

### physical form

Yellow to light brown, medium viscous polyol

### 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)	< 3.0
Hydroxyl number (ISO 4326)	155 - 165
Viscosity (dynamic) (25 °C) (ISO 2555 (MOD.))	2.300 – 3300 mPa.s
Viscosity (dynamic) (23 °C) (ISO 2555 (MOD.))	2500 – 3500 mPa.s
Density (20 °C) (DGF C-IV 2B (52))	0,98 - 1.02 g/cm <sup>3</sup>

## Application

In combination with Polymer MDI Sovermol® 890 can be used for the production of 2 pack coating and casting materials, crack bridging coatings, in floorings and for adhesives.

In addition, Sovermol® 890 shows particular water repellency, which results in less sensitivity to moisture while curing.

## Mixing Formulation (without filler)

100 g Sovermol® 890

5 g Zeolith paste

38 g Polymer MDI\*

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

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

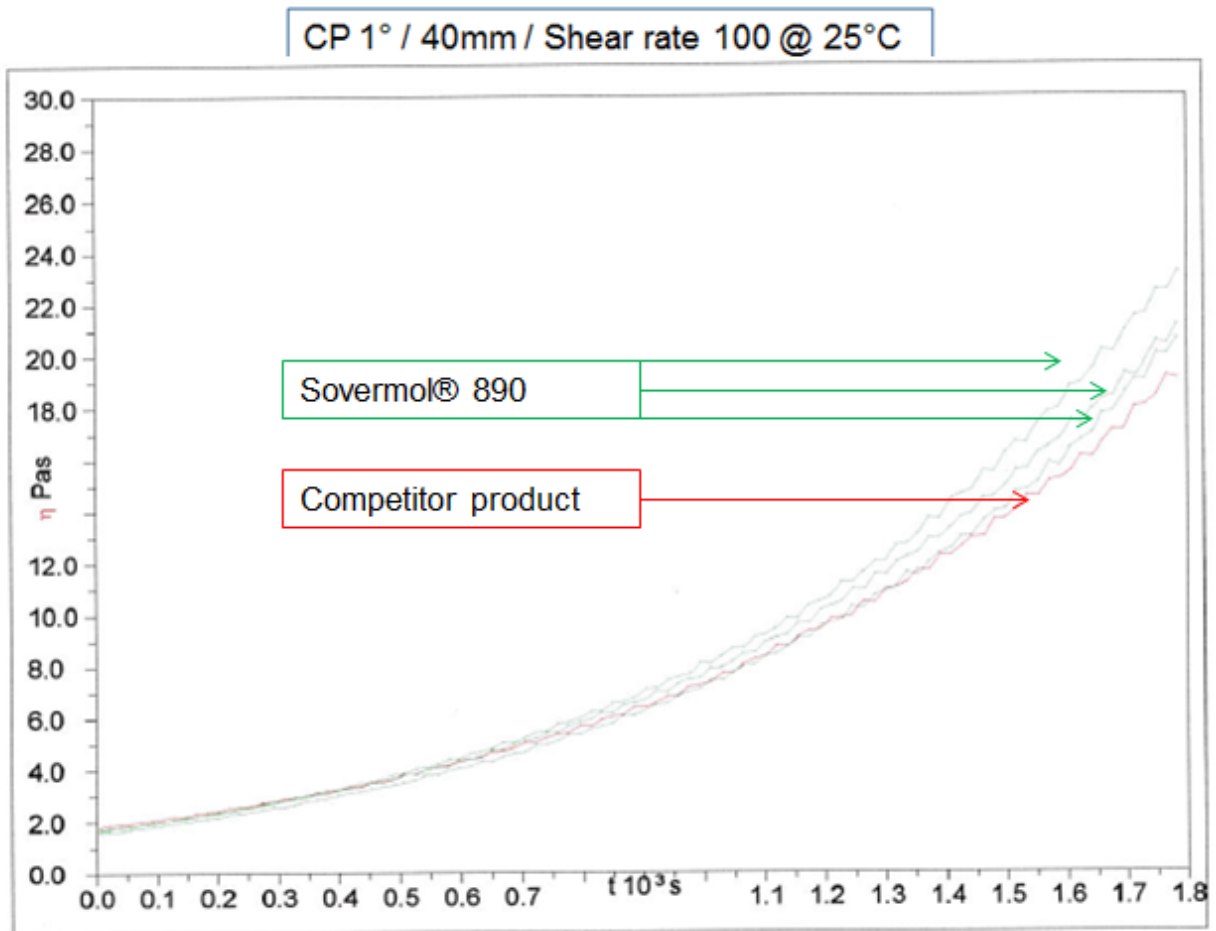
	A	D
after 1 day	62	18
after 2 days	-	-
after 3 days	-	-
after 7 days	89	40
after 14 days	-	-
after 28 days	98	62

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**Polymer MDI in combination with:**

	<b>Sovermol 890®</b>	<b>Competitor product</b>
<b>Mixing ratio</b>	100:38	100:38
<b>Geltime in hours Coesfield</b>	00:55	00:55
<b>Tensile strength in MPa (ISO 527-3 Typ5)</b>	13	17
<b>Elongation in % (ISO 527-3 Typ5)</b>	95	102
<b>Tear resistance in N/mm (ISO 34-1)</b>	58	55
<b>Impact resistance in mJ/mm<sup>2</sup></b>	128	114
<b>End Shore hardness A/D (ISO 868)</b>	98/62	95/59

Low starting point viscosity & low increase of molecular weight within the reaction



**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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