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Sovermol® 100

Product description

Sovermol® 100 is a polyol used in the manufacturing of polyurethanes

Key benefits

- Co-polyol (in combination with Sovermol 750 UV-stable)
- Improves glass transition temperature Tg
- High cross-linking density, hydrophilic
- Improvement of chemical resistance
- Drinking and potable water application possible upon product specific confirmation according to local legislation.

Chemical nature

Branched polyether

Properties

Physical form

Medium viscous, clear liquid

Technical data
(not supply specification)

Water content	DIN EN 13267-01	≤ 0.2 %
Acid number	DGF C-V 2	≤ 1.0
Hydroxyl number	DGF C-V 17 A, B	840 – 920 mg KOH/g
Viscosity, 25 °C	ISO 2555-89	5,000 – 7,000 mPa·s
Density, 25 °C	DGF C-IV 2B (52)	1.06 – 1.10 g/cm^3
Color Gardner	DIN ISO 4630	≤ 1

Application

Sovermol® 100 is recommended for solvent-free coatings of high chemical resistances and hardness. It increases the glass transition temperature also.

Sovermol® 100 has normally to be used in combination with other Sovermol® types. As sole polyol it is necessary to homogenize at least 10 minutes to achieve a good compatibility with the isocyanate by increasing the viscosity

Mixing formulation
(without filler)

100 g Sovermol® 100
5 g Zeolith paste
213 g Polymer MDI*

e.g. Lupranate M20S – BASF Polyurethanes

Gel time at 23 °C, approx. 20 min. (30 g mass)

Shore hardness
(storage/room temperature)

	A	D
after 1 day	100	77
after 2 days	100	77
after 3 days	–	–
after 7 days	–	–
after 14 days	100	80
after 28 days	100	80

Technical Data

		Sovermol® 100 in combination with	
		Polymer MDI*	**MDI (Carbodiimid - modified)****
Shore D hardness RT (ISO 868)	after 1 day	77	79
	after 2 days	77	–
	after 3 days	–	–
	after 7 days	–	–
	after 14 days	80	–
	after 28 days	80	88
Mixing ratio		100:213	100:244
Geltime in hours (Coesfield)		00:20	00:40
Tensile strength in MPa (ISO 527-3 Typ 5)		–	–
Elongation in % (ISO 527-3 Typ 5)		–	–
Tear resistance in N/mm (ISO 34-1)		–	–
Bending strength in MPa (DIN EN ISO 178)		107	–
Impact resistance in mJ/mm2 (DIN 53453)		2	–

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

** Supraspec 2010, Fa. Huntsman Polyurethanes

Safety

When handling this product, 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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