

Sovermol® 1102

Product description Sovermol® 1102 is a polyol used in the manufacturing of UV-stable polyurethanes.

Key benefits

- Universal Co-poyol
- Hydrophobic
- Reactive diluent
- Soft elastic performance
- Gel time prolonger

Chemical nature Slightly branched polyether/polyester

Properties

Physical form Low viscous, yellow, clear liquid

Technical data

(not supply specification)

Water content	DGF C-III 13A	< 0.1 %
Acid number	DGF C-V 2	< 3.0
Hydroxyl number	DGF CV 17A, B	210 – 245 mg KOH/g
Viscosity, dynamic, 20 °C	DIN 53015	150 – 650 mPa.s
Density, 20 °C	DGF C-IV 2B (52)	0.98 – 1.02 g/cm ³
Color number	DIN ISO 4630	0 – 8

Application

In combination with Polymer MDI Sovermol® 1102 can be used for the production of flexible 2-pack coating and casting compounds.

In addition, Sovermol® 1102 is strongly water repellent, which results in less sensitivity to moisture while curing.

Mixing formulation (without filler)

100 g Sovermol® 1102

5 g Zeolith Paste

55 g Polymer MDI*

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

Gel time at 23 °C, approx. 195 min. (30 g mass)

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

	A	D
after 1 day	–	–
after 2 days	39	10
after 3 days	–	–
after 7 days	–	–
after 14 days	89	4
after 28 days	94	56

Technical Data

Sovermol® 1102 in combination with

	Polymer MDI*	MDI (Carbodiimide-modified)**
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Shore A/D hardness RT
(ISO 868)

after 1 day	5/–	8/–
after 2 days	39/10	34/–
after 3 days	–/–	59/–
after 7 days	–/–	67/–
after 14 days	89/45	69/–
after 28 days	94/56	70/–

Mixing ratio	100:56	100:63
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Geltime in hours Coesfield	03:15	02:33
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Tensile strength in MPa (ISO 527-3 Typ 5)	13	6
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Elongation in % (ISO 527-3 Typ 5)	52	189
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Tear resistance in N/mm (ISO 34-1)	47	28
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Bending strength in MPa (DIN EN ISO 178)	2	–
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Impact resistance in mJ/mm ² (DIN 53453)	38	–
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* e.g. Lupranat M 20 S, BASF Polyurethanes

** e.g. Supraspec 2010, Fa. Huntsmann 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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