Technical Information

Sovermol® 320

We create chemistry

general

Sovermol® 320 is a polyol used in the manufacturing of polyurethanes

- 100% renewable raw material content
- High Shore D Hardness ~80
- Good mechanical properties
- Potable water application
- Raw materials registered in EU-Directive 2002/72/EG resp. 2007/19/EC as amended

Sovermol® 320 shouldn't be stored at temperatures below 15°C because it may crystallize partially. This effect is reversible by warming up to approx. 50°C.

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 brownish, clear, low viscous fluid

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-lll 13a)	< 0.15%
Acid number (DGF C-V 2)	< 6.0 mg KOH/g
Hydroxyl number (DGF C-V 17a)	300 – 320 mg KOH/g
Viscosity (25 °C) (DIN 53015)	800 – 1200 mPa·s
Lithium content (Q-C 2500.0)	< 15 ppm

Application

In combination with Polymer MDI Sovermol® 320 can be used for the production of 2-pack PU coating, casting materials and adhesives.

Important: When using Sovermol® 320 with isocyanates in uncatalyzed systems it is recommended to mix for a minimum of 10 – 15 minutes.

Application example (without filler)

100 g Sovermol® 320
5 g Zeolith paste
75 g Polymer MDI*
*e.g. Lupranate M 20 S – BASF Polyurethanes

Gel time at 23°C approx. 46 min (30g mass).

Shore hardness (ISO 868) (storage/room temperature)	A	D
after 1 day	71	22
after 2 days	98	64
after 3 days	-	-
after 7 days	-	-
after 14 days	100	81
after 28 days	100	83

Technical Data

	Sovermol® 320 in combination with Polymer MDI*
Shore D hardness RT (ISO 868)	
after 1 day	22
after 2 days	64
after 3 days	-
after 7 days	-
after 14 days	81
after 28 days	83
Mixing ratio	100:75
Geltime in hours Coesfield	00:46
Tensile strength in MPa (ISO 527-3 Typ5))	30
Elongation in % (ISO 527-3 Typ5)	4
Tear resistance in N/mm (ISO 34-1)	30
Bending strength in MPa (DIN EN ISO 178)	36
Impact resistance in mJ/mm² (DIN 53453)	12

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

Registration / Regulatory Information

Approvals	Raw materials registered in EU-Directive 2002/72/EG resp. 2007/19/EC as amended

Regulatory Status

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

●	Yes
○	No

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.

BASF SE
Dispersions & Resins Europe
67056 Ludwigshafen, Germany
www.basf.com/resins