

Sovermol® 815



general

Sovermol® 815 is a polyol used in the manufacturing of polyurethanes

- Low viscosity universal polyol
- Good elastic memory effect
- High renewable raw material content
- Binder for pigment pastes
- Good chemical resistance

Sovermol 815 shows tendency to crystallization at temperature below 15°C. This effect is reversible if the product is stored at a temperature over 40°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 fluid

shelf life

When stored under the usual appropriate storage conditions, the product can be stored for at least 1 years.

typical properties (no supply specification)

Water content (DGF C-III 13A)	< 0.2%
Acid number (DGF C-V 2)	< 3.0
Hydroxyl number (DGF CV 17A,B)	210 - 230
Viscosity (dynamic) (25 °C) (DIN 53015-78)	1.300 – 1900 mPas
Density (20 °C) (DGF C-IV 2B (52))	~ 1.00 g/cm ³

Application

In combination with Polymer MDI Sovermol® 815 can be used for the production of rigid-flexible 2 pack coating and casting materials.

In addition, Sovermol® 815 shows particular water repellency, which results in less sensitivity to moisture while curing.

Mixing Formulation for Casting (without filler)

100 g Sovermol® 815

5 g Zeolith paste

52 g Polymer MDI*

e.g. Lupranat M 20 S – BASF Polyurethanes

Gel time at 23°C approx. 60 min (30g mass).

Shore hardness (storage/room temperature)

A D

after 1 day	83	44
after 2 days	-	53
after 3 days	-	57
after 7 days	-	68
after 14 days	-	71
after 28 days	95	77

Technical Data

Sovermol® 815 in Kombination with

	Polymer MDI**	MDI (Carbodiimid- modified)*
Shore D hardness RT (EN ISO 868)		
after 1 day	44	35
after 2 days	59	55
after 3 days	63	60
after 7 days	71	64
after 14 days	74	71
after 28 days	77	73
Mixing ratio	100:60	100:60
Geltime in hours Coesfield	01:04	00:34
Tensile strength in MPa (ISO 527-3 Typ5)	22	16
Elongation in % (ISO 527-3 Typ5)	34	78
Tear resistance in N/mm (ISO 34-1)	81	78

* e.g. Supraspec 2010, Fa. Huntsman Polyurethans

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

Sovermol® 815 in Kombination with

Aliphatic Polyisocyanat HDI-based NCO = 23% *

Fomrez UL 28 (10%)	8
Mixing ratio	100:72
Gel-time in hours Coesfield	01:50 h
Shore A hardness after 1 day storage at RT (EN ISO 868)	63
Shore A hardness after 1 day storage at RT (EN ISO 868)	37
Tensile strength in MPa (ISO 527-3 Typ5)	5
Elongation (ISO 527-3 Typ5)	63%
Tear resistance (ISO 34-1)	10 N/mm
Abrasion 120 µm in mg after 1000 rpm – CS 17 (taber abraser)	24
Abrasion 1 mm in mg after 1000 rpm – CS 17 (taber abraser)	22

* e.g. Basonat LR 9046, BASF SE

Registration / Regulatory Information

Regulatory Status

AICS	<input checked="" type="radio"/>	
ENCS (JP)	<input checked="" type="radio"/>	
EU	<input checked="" type="radio"/>	
INV (CN)	<input checked="" type="radio"/>	
KECI (KR)	<input checked="" type="radio"/>	
TSCA	<input checked="" type="radio"/>	
	<input checked="" type="radio"/>	Yes
	<input type="radio"/>	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.

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