

Sovermol[®] 818

Product description Sovermol[®] 818 is a polyol used in the manufacturing of polyurethanes.

Key benefits

- Low viscosity universal polyol
- Good self-leveling properties
- Extremely hydrophobic
- Good bonding properties
- Excellent flexibility at temperatures below 0 °C
- High renewable raw material content

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

Chemical nature Oleochemical polyester

Properties

Physical form Yellow, low viscosity fluid

Technical data

(not supply specification)

Water content	ISO 4317	< 0.2 %
Acid number	ISO 660	< 3.0 mg KOH/g
Hydroxyl number	ISO 4326	223 – 248 mg KOH/g
Viscosity, dynamic, 25 °C	ISO 12058-1 (97)	650 – 850 mPa.s
Density, 25 °C	ISO 2811-3	0.98 – 1.02 g/cm ³

Application

In combination with Polymer MDI Sovermol® 818 can be used to produce 2-pack coating and casting materials. Due to the hydrophobic properties and its low viscosity, this material is therefore eminently suitable for electro potting compounds.

In addition, Sovermol® 818 is strongly water repellent, which results in less sensitivity to moisture while curing.

Formulation guideline

(without filler)

100 g Sovermol® 818

5 g Zeolith Paste

57 g Polymer MDI *

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

Gel time at 23 °C, approx. 84 min. (30 g mass)

Shore hardness (ISO 868)

A

D

(storage/room temperature

after 1 day

60

18

after 2 days

78

31

after 3 days

–

–

after 7 days

–

–

after 14 days

94

50

after 28 days

96

60

Sovermol® 818 in combination with:

Polymer MDI*

Shore D hardness RT
(ISO 868)

after 1 day

18

after 2 days

31

after 3 days

–

after 7 days

–

after 14 days

50

after 28 days

60

Mixing ratio

100:57

Geltime in hours
Coesfield

01:24

Tensile strength in MPa
(ISO 527-3 Typ 5)

18

Elongation in %
(ISO 527-3 Typ 5)

58

Tear resistance in N/mm
(ISO 34-1)

64

Bending strength in MPa
(DIN EN ISO 178)

6

