

TYPE

Branched, castor oil-based polyol

USES

In the formulation of tough-elastic coatings.

FORM SUPPLIED

Solvent-free, liquid

SPECIFICATION

Viscosity (23 °C): 3500 ± 500 mPa·s

DIN EN ISO 3219/A.3

Hydroxyl content, supply form: 4.7 ± 0.2 %

DIN 53 240-2

Acid value, supply form: ≤ 2 mg KOH/g

DIN EN ISO 2114

Iodine color value: ≤ 5

DIN EN 1557

Water content: ≤ 0.1 %

DIN 51 777-1

OTHER DATA*

Equivalent weight, supply form: approx. 360 g/eq

Density (20 °C): approx. 1.01 g/cm³

DIN EN ISO 2811-2

Flash point: approx. 127 °C

DIN EN ISO 1523

* These values provide general information and are not part of the product specification.

PROPERTIES / APPLICATIONS

In combination with other polyols such as SETATHANE D 1145, 1156 and crosslinked with Desmodur¹ VL, SETATHANE D 1150 is suitable for use in the formulation of two-component coatings. These are mainly used on concrete and asphalt floors and steel surfaces.

After crosslinking and curing of SETATHANE D 1150 with Desmodur VL, the resultant coatings are tough and flexible, hard-wearing and chemical-resistant.

It can also be combined with Desmodur L to formulate highly-resistant sealing compounds.

For calculation of the necessary amount of polyisocyanate at equivalent chemical reaction use following formula:

$$\frac{42 \times 100 \times \text{OH\% (solid resin)}}{17 \times \text{NCO\% (supply form)}} = \text{polyisocyanate (supply form)}$$

SOLUBILITY / THINNABILITY

Generally speaking, SETATHANE D 1150 can be thinned with esters, ketones, ether esters and aromatic hydrocarbons. However, the solutions formed have to be tested for their storage stability.

Prolonged storage of a solution with low binder content may result in turbidity and sedimentation.

Only PUR grade solvents should be used (<0.05 % water). The solvent should not contain reactive groups.

COMPATIBILITY

Generally speaking, SETATHANE D 1150 is compatible with polyols and MDI and HDI polyisocyanates.

Given the many different products on the market, compatibility testing is always advisable.

STORAGE

When stored in originally sealed containers at temperatures not exceeding 30 °C, the product will remain stable for at least 730 days.

¹ Covestro

LABELING AND REACH APPLICATIONS

This product data sheet is only valid in conjunction with the latest edition of the corresponding Safety Data Sheet. Any updating of safety-relevant information – in accordance with statutory requirements – will only be reflected in the Safety Data Sheet, copies of which will be revised and distributed. Information relating to the current classification and labeling, applications and processing methods and further data relevant to safety can be found in the currently valid Safety Data Sheet.