

TYPE

Branched, castor oil-based polyol

USES

In the formulation of hard and tough coatings and synthetic resin mortars.

FORM SUPPLIED

Solvent-free, liquid

SPECIFICATION

Viscosity (23 °C): 2950 ± 250 mPa·s

DIN EN ISO 3219/A.3

Hydroxyl content, supply form: 7.1 ± 0.5 %

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: ≤ 0.2 %

DIN 51 777-1

OTHER DATA*

Equivalent weight, supply form: approx. 240 g/eq

Density (20 °C): approx. 1.01 g/cm³

DIN EN ISO 2811-2

Flash point: approx. 189 °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 1150 and crosslinked with Desmodur VL¹, SETATHANE D 1145 is suitable for use in the formulation of two-component coatings. The main applications are in the construction industry.

Curing yields hard to tough but flexible films which are resistant to abrasion and chemicals.

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 1145 has good compatibility with the solvents listed. However, the solutions have to be tested for their storage stability.

SETATHANE D 1145 can be thinned with esters, ketones, ether esters and aromatic hydrocarbons.

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 1145 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.