

TYPE

Slightly branched, castor oil-based polyol

USES

In combination with solvent-free, predominantly aromatic polyisocyanates, as a binder for flexible floor coatings.

FORM SUPPLIED

Pale yellow, solvent-free liquid

SPECIFICATION

Viscosity (23 °C): 1000 ± 100 mPa·s
DIN EN ISO 3219/A.3

Hydroxyl content, supply form: 5.4 ± 0.3 %
DIN 53 240-2

Acid value, supply form: ≤ 2.0 mg KOH/g
DIN EN ISO 2114

Iodine color value: ≤ 5.0
DIN EN 1557

Water content: ≤ 0.2 %
DIN 51 777-1

OTHER DATA*

Equivalent weight, supply form: approx. 315 g/eq

Density (20 °C): approx. 0.99 g/cm³
DIN EN ISO 2811-2

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

PROPERTIES / APPLICATIONS

The most suitable co-reactant for SETATHANE D 1160 is Desmodur VH 20 N¹. Other polyisocyanates such as Desmodur VL¹ are also suitable but the compatibility must be tested in each case.

SETATHANE D 1160 can be used in the formulation of flexible floor coatings.

Coatings based on SETATHANE D 1160 and Desmodur VH 20 N are characterized by their high flexibility and good mechanical strength.

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

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

SOLUBILITY / THINNABILITY

Generally speaking, SETATHANE D 1160 can be thinned with esters, ketones, ether esters and aromatic hydrocarbons. However, the solutions formed have to be tested for their storage stability.

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

COMPATIBILITY

Generally speaking, SETATHANE D 1160 is compatible with solvent-free SETATHANE D grades such as SETATHANE D1150 and with Desmodur¹ grades. In case of doubt, compatibility testing should be carried out.

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.