

Desmodur[®] N 75 MPA/X

Type	Aliphatic polyisocyanate (HDI biuret)
Form supplied	approx. 75 % in 1-methoxypropylacetate-2/xylene, 1 : 1
Uses	As the hardener component for lightfast polyurethane coating systems.

Specification Property	Value	Unit of measurement	Method
NCO content	16.5 ± 0.3	%	DIN EN ISO 11 909
Non-volatile content 2.2 g / 120 min / 100 °C	75 ± 1	%	DIN EN ISO 3251
Viscosity at 23 °C	250 ± 75	mPa·s	DIN EN ISO 3219/A.3
Color value (Hazen)	≤ 40		DIN EN 1557
Monomeric HDI	< 0.5	%	DIN 55 956

Other data* Property	Value	Unit of measurement	Method
Viscosity at 25 °C	approx. 225	mPa·s	DIN EN ISO 3219/A.3
Equivalent weight	approx. 255		
Flash point	approx. 38	°C	DIN 53 213/1
Density at 20 °C	approx. 1.07	g/ml	DIN EN ISO 2811

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



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Solubility / thinnability

Desmodur N 75 MPA/X can be thinned with esters, ketones and aromatic hydrocarbons such as ethyl acetate, butyl acetate, methoxypropylacetate, acetone, methyl ethyl ketone, methyl isobutyl ketone, cyclohexanone, toluene, xylene, solvent naphtha 100 and mixtures thereof.

Generally speaking, it has good compatibility with the solvents listed. However, the solutions formed must be tested for their storage stability. Only PU grade solvents should be used (max. 0.05 % water, absence of reactive groups such as hydroxyl or amino groups). Aliphatic hydrocarbons are unsuitable as solvents.

Desmodur N 75 MPA/X should not be thinned to below a solids content of 40 %. Prolonged storage of a solution with a lower binder content may result in turbidity and sedimentation.

Compatibility

Generally speaking, Desmodur N 75 MPA/X can be mixed with the following products: aliphatic polyisocyanates such as Desmodur N 3200, N 3300, N 3400, N 3600 and Desmodur Z 4470; aromatic polyisocyanates such as Desmodur L, HL and IL; polyester polyols such as Desmophen[®] 651 and 670; polyacrylates such as the Desmophen A products; polyether polyols such as Desmophen 1380 BT. However, the compatibility of the combinations used should always be tested.

Properties / Applications

Desmodur N 75 MPA/X is used primarily as the hardener component for lightfast two-component polyurethane coatings with high resistance to chemicals and weathering, very good gloss retention and outstanding mechanical properties. Preferred co-reactants are polyacrylate or polyester polyols.

The main applications for systems based on Desmodur N 75 MPA/X are as air- and force-drying coatings for automotive and industrial finishing, for wood, furniture and plastics and for corrosion protection.

Storage

The product is sensitive to moisture and should therefore always be stored in sealed containers. When stored under the proper conditions at room temperature, the product will remain stable for at least 6 months.



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Safety

Hazards identification

Flammable. Harmful by inhalation and in contact with the skin. May cause sensitization by skin contact. Contains isocyanates. Risk of absorption through the skin of xylene and ethylbenzene.

The safety data sheet (028731) should be observed. This contains information on labeling, transport and storage as well as on handling, product safety and ecology.

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