



DESMODUR® N 75 MPA/X

Aliphatic Polyisocyanate

Description

Desmodur N 75 MPA/X is an aliphatic polyisocyanate (HDI biuret). Form supplied is approximately 75% in 1-methoxypropylacetate-2/xylene, 1:1.

Application

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. As with any product, use of Desmodur N 75 MPA/X in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

Product Specifications

Property	Value
NCO content, %	16.5 ± 0.3
Non-volatile content, % (2.2g/120 min/100°C)	75 ± 1
Viscosity @ 25°C, mPa.s	150 ± 60
Color value (Hazen)	≤ 60
Monomeric HDI, %	< 0.5

Typical Properties*

Property	Value
Viscosity at 23°C, mPa.s	Approx. 175
Density @ 20°C, g/ml	Approx. 1.07
Flash point, °C	Approx. 38
Equivalent wt.	Approx. 255

Solubility

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. Only PU grade solvents should be used (<0.05% water). 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 low binder content may result in turbidity and sedimentation.

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.

* These items are provided as general information only. They are approximate values and are not part of the product specifications.

Compatibility

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

Storage

Desmodur N 75 MPA/X polyisocyanate should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials. Recommended storage temperatures are between 5° and 25°C. The product is sensitive to moisture. Storage at higher temperatures will result in an increase of color and viscosity. The shelf life is six months after receipt of material by customer, when stored in closed original containers.

Health And Safety Information

Appropriate literature has been assembled which provides information pertaining to the health and safety concerns that must be observed when handling Desmodur N 75 MPA/X polyisocyanate. For materials mentioned that are not Bayer products, appropriate industrial hygiene and other safety precautions recommended by their manufacturer should be followed. Before working with any product mentioned in this publication, you must read and become familiar with available information concerning its hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms such as material safety data sheets and product labels. For further information contact your Bayer MaterialScience representative or the Product Safety and Regulatory Affairs Department in Pittsburgh, PA.

Note: The information contained in this bulletin is current as of February 2014, please contact Bayer MaterialScience to determine whether this publication has been revised.

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