HDI Low Viscosity Covesro N3600

Characterization:

Aliphatic polyisocyanate (low-viscosity HDI trimer).

Use as the hardener component for flexible, lightfast polyurethane coating systems.

Specification:

Property	Value	Unit of measur	Method
NCO content	23.0 ± 0.5 %	%	M105-ISO 1190 9
Viscosity at 23	1,200 ± 300	mPa • s	M014-ISO 3219 /A.3
Color value (Ha zen)	≤ 40		M017-EN 1557
Monomeric HDI	≤ 0.25	%	M106-ISO 1028

Other data*:

Property	Value	Unit of measur	Method
Viscosity at 25	approx. 1,100	mPa • s	M014-ISO 3219 /A.3
Equivalent weig	approx. 183		
ht			
Flash point	approx. 158	° C	DIN 53 213/1
Density at 20	approx. 1.16	g/ml	DIN EN ISO 28
° C			11

Solubility / thinnability :

Desmodur® N 3600 can be thinned with esters, ketones and arom atic hydrocarbons suchas ethyl acetate, butyl acetate, methoxyprop ylacetate, acetone, methyl ethyl ketone, methyl isobutyl ketone, cycl ohexanone, toluene,xylene, solvent naphtha® 100 and mixtures ther eof.Generally speaking, it has good compatibility with the solvents listed. However,the solutions formed must be tested for their stora ge stability. Only PU grade solvents should be used (max. 0.05 %

water, absence of reactive groups such as hydroxyl or amino group s). Aliphatic hydrocarbons are unsuitable as solvents.

Desmodur®N 3600 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 3600 can be mixed with the follo wing products: Aliphatic polyisocyanates such as Desmodur®N 100, N 75, N 3200,ultra N 3300, N 3400 and Desmodur®Z 4470; arom atic polyisocyanates such as Desmodur® L/ultra L, HL and IL/ultra IL; polyester polyols such as Desmophen® 670 and polyacrylates. However, the compatibility of the combinations used should always be tested.

Desmodur® N 3600 is not compatible with branched polyester poly ols such as Desmophen®651 or polyether polyols such as Desmoph en® 1380 BT.

Properties / Applications:

Desmodur® N 3600 is used primarily as the hardener component f

or lightfast two-component polyurethane coatings with high resista nce to chemicals and weathering, very good gloss retention and o utstanding mechanical properties.

Preferred co-reactants are polyacrylate or polyester polyols.

The main applications for systems based on Desmodur®N 3600 are air- and force-drying coatings for automotive OEM, automotive r efinishing, transportation, industrial finishing and plastics.

On account of its low viscosity, Desmodur®N 3600 is particularly s uitable for the formulation of high-solids coatings and can also be used as the hardener for aqueous two-component polyurethane co atings.

Storage:

- Storage in original sealed Covestro container.
- Recommended storage temperature: 0 30 ° C.
- Protect from moisture, heat and foreign material.

General information: The product is sensitive to moisture. Storage at higher temperatureswill result in increase of color and viscosity. Storage at significant lower temperatures will result in solidification. This solidification is reversible by briefly heating the product without adversely affecting the quality of the product.

Storage time :

Covestro represents that, for a period of nine months following th

e day of shipment as stated in the respective transport documents,

the product will meet the specifications or values set forth in secti

on "specifications or characteristic data" above, what ever is applic

able, provided that the product is stored in full compliance with t

he storage conditions set forth in and referenced under section "st

orage" above and is otherwise handled appropriately.

The lapse of the nine months period does not necessarily mean t

hat the product no longer meets specifications or the set values.

However, prior to using said product, Covestrorecommends to test

such a product if it still meets the specifications or the set values.

Covestro does not make any representation regarding the product

after the lapse of thenine months period and Covestro shall not b

e responsible or liable in any way for the product failing to meets

pecifications or the set values after the lapse of the nine months

period.

E_mail us : <u>info@allhdi.com</u>