

HDI trimer Covestro N3390

ABOUT:

Characterization	Aliphatic polyisocyanate (HDI trimer). As the hardener component for lightfast polyurethane coating systems
Form supplied	approx. 90 % in n-butyl acetate

Specification:

Property	Value	Unit of measurement	Method
NCO content	19.6 ± 0.3	%	M105-ISO 11909
Non-volatile content (2.2 g / 120 min / 100 °C)	90 ± 1	%	M020-ISO 3251
Viscosity at 23 °C	500 ± 150	mPa·s	M014-ISO 3219/A.3
Color value	≤ 40		M017-EN 1557

(Hazen)			
Monomeric HDI	< 0.10	%	M106-ISO 10283

Other data*

Property	Value	Unit of measurement	Method
Viscosity at 25 °C	C approx. 450	mPa·s	M014-ISO 3219/A.3
Equivalent weight	approx. 214		
Flash point	approx. 50	°C	DIN 53213
Density at 20 °	C approx. 1.13	g/ml	DIN 53213

Solubility / thinnability:

Desmodur® ultra N 3390 BA 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® ultra N 3390 BA 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® ultra N 3390 BA can be mixed with the following products: aliphatic polyisocyanates such as Desmodur® N 100, N 75, N 3200, N 3400, ultra N 3600 and Desmodur® Z 4470; aromatic 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® ultra N 3390 BA is not compatible with branched polyester polyols such as Desmophen® 651 or polyether polyols such as Desmophen® 1380 BT.

Properties / Applications:

Desmodur® ultra N 3390 BA 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® ultra N 3390 BA are air- and force-drying coatings for automotive OEM, automotive refinishing, transportation, industrial finishing and plastics.

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 temperatures will result in increase of color and viscosity.

Storage time:

Covestro represents that, for a period of nine months following the day of shipment as stated in the respective transport documents, the product will meet the specifications or values set forth in section "specifications or characteristic data" above, what ever is applicable, provided that the product is stored in full compliance with the storage conditions set forth in and referenced under section "storage" above and

is otherwise handled appropriately.

The lapse of the nine months period does not necessarily mean that the product no longer meets specifications or the set values. However, prior to using said product, Covestro recommends 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 the nine months period and Covestro shall not be responsible or liable in any way for the product failing to meet specifications or the set values after the lapse of the nine months period.

Labeling and statutory requirements :

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.

Further information :

The product is used mainly as a hardener in coating materials or adhesives. The handling of coating materials or adhesives containing

reactive polyisocyanates and residual monomeric HDI requires appropriate protective measures referred to in the safety data sheet. These products may therefore be used only in industrial or trade applications. They are not suitable for use in homemaker (DIY) applications.

Storage and Transportation:

STORAGE: It is recommended to store in a dry and cool area with proper ventilation.

Packaging:

200KG/drum Please fasten the packaging cover as soon as possible after original packaging to prevent the mixing of other substances such as moisture and other substances that may affect the performance of the product. Do not inhale dust, avoid skin and mucous membrane contact. Smoking, eating and drinking are prohibited in the workplace. After work, shower and change clothes. Store contaminated clothes separately and reuse them after washing. Maintain good hygiene practices.

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