

Desmodur[®] N 3390 BA/SN

Type	Aliphatic polyisocyanate (HDI trimer)
Form supplied	approx. 90 % in butyl acetate/solvent naphtha [®] 100 (1 : 1)
Uses	As the hardener component for lightfast polyurethane coating systems.

Specification			
Property	Value	Unit of measurement	Method
NCO content	19.6 ± 0.3	%	DIN EN ISO 11 909
Non-volatile content 2.2 g / 120 min / 100 °C	90 ± 1	%	DIN EN ISO 3251
Viscosity at 23 °C	550 ± 150	mPa·s	DIN EN ISO 3219/A.3
Color value (Hazen)	≤ 40		DIN EN 1557
Monomeric HDI	≤ 0.15	%	DIN EN ISO 10 283

Other data*			
Property	Value	Unit of measurement	Method
Viscosity at 25 °C	approx. 500	mPa·s	DIN EN ISO 3219/A.3
Equivalent weight	approx. 214		
Flash point	approx. 50	°C	DIN 53 213/1
Density at 20 °C	approx. 1.13	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 3390 BA/SN 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 3390 BA/SN 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 3390 BA/SN can be mixed with the following products: aliphatic polyisocyanates such as Desmodur[®] N 100, N 75, N 3200, N 3400, N 3600 and Desmodur[®] Z 4470; aromatic polyisocyanates such as Desmodur[®] L, HL and IL; polyester polyols such as Desmophen[®] 670; polyacrylates such as the Desmophen[®] A products. However, the compatibility of the combinations used should always be tested. Desmodur[®] N 3390 BA/SN is not compatible with branched polyester polyols such as Desmophen[®] 651 or polyether polyols such as Desmophen[®] 1380 BT.

Properties / Applications

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



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Storage

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

Safety

Hazards identification

Flammable. May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Contains isocyanates.

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

This Information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery. This does not apply to Trial-Products.

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