

Desmodur[®] BL 3575 MPA/SN

Type	Blocked aliphatic polyisocyanate based on HDI
Form supplied	approx. 75 % in solvent naphtha [®] 100 / 1-methoxypropylacetate-2 (17 : 8)
Uses	In combination with Desmophen [®] grades to formulate lightfast one-component polyurethane stoving coatings.

Specification	Value	Unit of measurement	Method
Property			
Non-volatile content (0.2 g / 1 h / 80 °C)	75 ± 2	%	DIN EN ISO 3251
Viscosity at 23 °C	3,600 ± 1,000	mPa·s	DIN EN ISO 3219/A.3
Hazen color value	≤ 100		DIN EN 1557

Other data*	Value	Unit of measurement	Method
Property			
Equivalent weight	approx. 400		
Blocked NCO content	approx. 10.5	%	
Density at 20 °C	approx. 1.1	g/ml	DIN EN ISO 2811
Flash point	approx. 53	°C	DIN EN ISO 13 736

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



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Solubility / thinnability

Desmodur[®] BL 3575 MPA/SN can be thinned with esters, ketones and aromatic hydrocarbons such as: ethyl acetate, butyl acetate, methoxypropylacetate, acetone, methyl isobutyl ketone, toluene, xylene, solvent naphtha[®] 100, 150 and mixtures thereof.

Generally speaking, it has good compatibility with the solvents listed. However, the solutions formed must be tested for their storage stability. Aliphatic hydrocarbons are unsuitable as solvents.

Desmodur[®] BL 3575 MPA/SN should not be thinned below a solids content of 40 %, with solvent naphtha to not less than 60 %. Prolonged storage of a solution with a lower binder content may result in turbidity and sedimentation.

Compatibility

Given equivalent crosslinking, Desmodur[®] BL 3575 MPA/SN is generally compatible with Desmophen[®] 651, 670, 680, 690, 800, 1300, VP LS 2971, VP LS 2388, VP LS 2107, RD 181, A 160, A 165, A 265, A 365, A 450, A 565, A 575, A 665 and A 870 and with Desmophen[®] T 1665.

The combinations should always be tested for their compatibility.

Properties / Applications

Desmodur[®] BL 3575 MPA/SN is combined with Desmophen[®] types to formulate light-fast, weather-stable, chemical- and highly heat-resistant, one-component polyurethane stoving coatings.

The main applications are in topcoats for automotive OEM and in high-grade industrial finishes (can-/coil-coatings, etc.).

Compared with Desmodur[®] BL 3175 SN, Desmodur[®] BL 3575 MPA/SN allows a reduction in the stoving temperature of approx. 10 °C, without any decrease in solvent and chemical resistance.

Typical stoving conditions without catalyst are, e.g. for combinations with Desmophen[®] T 1665:

	160 °C	20 min
or	170 °C	10 min
or	190 °C	5 min

The use of a metal catalyst can significantly reduce the stoving temperatures.

Used in the coil coating systems, Desmodur[®] BL 3575 MPA/SN achieves sufficient crosslinking without the addition of a catalyst from a peak metal temperature of approx. 232 °C and above.

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Storage

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

General information: Storage at higher temperatures will 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

Bayer MaterialScience represents that, for a period of six 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 six months period does not necessarily mean that the product no longer meets specifications or the set values. However, prior to using said product, Bayer MaterialScience recommends to test such a product if it still meets the specifications or the set values. Bayer MaterialScience does not make any representation regarding the product after the lapse of the six months period and Bayer MaterialScience 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 six months period.



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Safety

Hazards identification

Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapors may cause drowsiness and dizziness.

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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Product Datasheet