Desmodur® BL 3575/1 MPA/SN

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

Specification

Property	Value	Unit of measurement	Method
Non-volatile content (0.2 g/60 min/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*

Property	Value	Unit of measurement	Method
Equivalent weight	approx. 400		
NCO content, blocked	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 3575/1 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 3575/1 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 3575/1 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 3575/1 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 3575/1 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 3575/1 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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Labeling and REACH applications

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**.

This product is not designated as „Medical Grade"1 and therefore shall not be considered a candidate for the manufacture of a medical device or of intermediate products for medical devices, which are intended under normal use to be brought into direct contact with the patient's body (e.g., skin, body fluids or tissues, including indirect contact to blood)*. This product is also not designated for Food Contact2, including drinking water, or cosmetic applications. If the intended use of the product is for the manufacture of a medical device or of intermediate products for medical devices, for Food Contact products or cosmetic applications Bayer MaterialScience must be contacted in advance to provide its agreement to sell such product for such purpose. Nonetheless, any determination as to whether a product is appropriate for use in a medical device or intermediate products for medical devices, for Food Contact products or cosmetic applications must be made solely by the purchaser of the product without relying upon any representations by Bayer MaterialScience. 1) Please see the "Guidance on Use of Bayer MaterialScience Products in a Medical Application" document. 2) As defined in Commission Regulation (EU) 1935/2004.

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