



Desmodur[®] BL 3475 BA/SN

Characterization

Diethyl malonate blocked, aliphatic polyisocyanate based on HDI / IPDI

In combination with Desmophen[®] grades to formulate lightfast, one-component stoving polyurethane coatings; as an additive in conventional stoving coating systems to improve the reactivity, flexibility and adhesion.

Form supplied

approx. 75 % in solvent naphtha[®] 100 / butyl acetate, 1 : 1

Specification

Property	Value	Unit of measurement	Method
Viscosity at 23 °C	1,000 ± 300	mPa·s	DIN EN ISO 3219/A.3
Color value (Iod)	≤ 4		DIN EN 1557

Other data*

Property	Value	Unit of measurement	Method
Blocked NCO content	approx. 8.2	%	
Viscosity at 25 °C	approx. 850	mPa·s	DIN EN ISO 3219/A.3
Equivalent weight	approx. 510		
Flash point	approx. 41	°C	DIN 53 213/1
Density at 20 °C	approx. 1.1	g/ml	DIN EN ISO 2811

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

Desmodur[®]

Product Data



Desmodur[®] BL 3475 BA/SN

Solubility / thinnability

Desmodur[®] BL 3475 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, 150, 200 S 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 3475 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

Given equivalent crosslinking, Desmodur[®] BL 3475 BA/SN is generally compatible with Desmophen[®] 651, 670, 680, 690, 800, 1100, 1300, RD 181, A 160, A 365 and A 450 and with Desmophen[®] T 1665. The combinations should always be tested for their compatibility.

Properties / Applications

Desmodur[®] BL 3475 BA/SN is combined with polyols to formulate reactive, light-fast and weather-stable one-pack polyurethane stoving coatings.

The main applications are in high-grade industrial finishes (can-/coil-coatings, etc.) and in primer surfacers for automotive OEM. Desmodur[®] BL 3475 BA/SN can also be used as an additive in conventional stoving systems to improve the reactivity, flexibility and adhesion.

Typical stoving conditions are, e.g. for combinations with Desmophen[®] T 1665 in equivalent ratios:

100 °C	50 min
or 120 °C	20 min
or 160 °C	7 min

Depending on the co-reactant used and the stoving time, yellowing may occur at temperatures above 160 °C.

Under coil-coating conditions, adequate crosslinking is achieved from approx. 216 °C PMT (peak metal temperature). The addition of catalyst to Desmodur[®] BL 3475 BA/SN is not necessary.

Desmodur[®]

Product Data





Desmodur[®] BL 3475 BA/SN

Storage

- Storage in original sealed Bayer MaterialScience container.
- Recommended storage temperature: 5 - 30 °C.
- Protect from frost, moisture, heat and foreign material.

General information: The product is sensitive to moisture. Storage at higher or lower temperatures can lead to irreversible changes to 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.

Desmodur[®]

Product Data





Desmodur[®] BL 3475 BA/SN

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 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.

Desmodur[®]

Product Data

