

# Desmodur<sup>®</sup> HL BA

**Characterization** Aromatic/aliphatic polyisocyanate based on toluylene diisocyanate/ hexamethylene diisocyanate.

In combination with various Desmophen<sup>®</sup> grades or other suitable substances containing hydroxyl groups to formulate clear or pigmented, two-component polyurethane coatings characterized by rapid drying and good lightfastness.

**Form supplied** approx. 60 % in butyl acetate

Specification Property	Value	Unit of measurement	Method
NCO content	10.5 ± 0.5	%	DIN EN ISO 11 909
Non-volatile content	60.0 ± 2.0	%	DIN EN ISO 3251
Viscosity at 23 °C	2,200 ± 1,000	mPa·s	DIN EN ISO 3219/A.3
Iodine color value	≤ 4		DIN EN 1557
Monomeric TDI + HDI	< 0.5	%	DIN EN ISO 10 283

Other data* Property	Value	Unit of measurement	Method
Equivalent weight	400		
Flash point	+ 28	°C	DIN EN ISO 1523
Density at 20 °C	approx. 1.13	g/ml	DIN EN ISO 2811-1

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

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## Solubility / thinnability

Generally speaking, Desmodur<sup>®</sup> HL BA has good compatibility with the solvents listed as follows. However, the solutions formed must be tested for their storage stability. Desmodur<sup>®</sup> HL BA can be thinned with ethyl acetate, butyl acetate and 1-methoxypropylacetate-2. Aromatics are not true solvents and have only limited compatibility as diluents.

Prolonged storage of a solution with low binder content may result in turbidity and sedimentation. Only PU grade solvents should be used (< 0.05 % water). The solvent should not contain reactive groups.

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## Compatibility

Desmodur<sup>®</sup> HL BA is compatible with many Desmophen<sup>®</sup> polyester grades. It has limited compatibility with acrylates containing hydroxyl groups. Generally speaking, Desmodur<sup>®</sup> HL BA is compatible with standard Desmodur<sup>®</sup> grades.

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## Properties / Applications

The rapid initial drying and early sandability are of particular advantage when formulating wood coatings. With just a few coats, high-bodied clear or pigmented finishes can be easily achieved.

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## 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 high temperatures leads to an increase in viscosity and a reduction of the NCO content.

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## Storage time

Covestro 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, 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 six 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 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**.

## 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 / TDI** 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.**

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.

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 Contact (2), 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 Covestro 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 Covestro.

1) Please see the "Guidance on Use of Covestro Products in a Medical Application" document.

2) As defined in Commission Regulation (EU) 1935/2004.

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**Product Datasheet**