

Desmodur[®] VL

Characterization

Aromatic polyisocyanate based on diphenylmethane diisocyanate

In combination with suitable Desmophen[®] grades in the formulation of solvent-free two-component polyurethane coatings, fillers, sealing compounds and synthetic resin mortars.

Form supplied

Brown solvent-free liquid of low viscosity

Specification

Property	Value	Unit of measurement	Method
NCO	31.5 ± 0.5	%	MDI-01-01
Viscosity 25 °C	90 ± 20	mPa·s	MDI-01-02

Other data*

Property	Value	Unit of measurement	Method
Equivalent weight	approx. 133		
Flash point	approx. 229	°C	DIN EN ISO 2719
Density 25 °C	approx. 1.23	g/ml	DIN EN ISO 2811-3

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



Desmodur[®] VL

Compatibility

Generally speaking, Desmodur[®] VL has good compatibility with many hydroxyl-bearing polyesters and polyethers.

A brief pre-reaction may be necessary. In case of doubt, compatibility tests should be carried out.

Properties / Applications

Desmodur[®] VL is combined with, for example, Desmophen[®] 1145, 1150, 1155, 5028 GT and 1380 BT. Depending on the Desmophen[®] product used, the coatings yielded can be varied from hard to flexible.

It is necessary to add water scavengers such as molecular sieve paste[®] 3 Å to the polyol component to prevent the undesired reaction of Desmodur[®] VL with water.

Systems formulated with Desmodur[®] VL are suitable for coating concrete, asphalt, fibrous cement and plastics.

Storage

- Storage in original sealed Bayer MaterialScience container.

- Recommended storage temperature: 10 - 30 °C.

- Protect from moisture, heat and foreign material.

General information: The product is sensitive to moisture and should therefore be stored in its sealed original containers. Storage at higher temperatures may result in an increase in viscosity and at lower temperatures in the formation of crystalline deposits.

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[®] VL

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.

Editor: Coatings, Adhesives & Specialties
Bayer MaterialScience AG
D-51368 Leverkusen, Germany
www.bayercoatings.com

Contact:
Neyers, Heinrich
Tel. +49 214 / 30-57982

page 3 of 3

Edition 2012-06-21

Replaces edition dated 2011-06-01

Desmodur[®]

Product Datasheet