

Desmodur[®] IL 1351 BA

Characterization

Desmodur IL 1351 BA is an aromatic polyisocyanate based on toluene diisocyanate.

It is suitable for use as the hardener component for fast-drying two-component polyurethane coatings.

Form supplied

Form supplied is approximately 51% in butyl acetate.

Characteristic data

Property	Value	Unit of measurement	Method
NCO content	8.0 ± 0.3	%	
Non-volatile content (0.2 g / 60 min / 120°C)	51.0 ± 2.0	%	
Viscosity (23°C)	1,300 ± 450	mPa•s	
Color value (Iodine)	≤ 1.0		
Monomer content	< 0.50	%	

Other data*

Property	Value	Unit of measurement	Method
Equivalent weight	approx. 525		
Flash point	approx. 26	°C	
Density at 20°C	approx. 1.09	g/ml	

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

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Solubility / thinnability

Generally speaking, Desmodur IL 1351 BA has good thinnability with esters such as ethyl acetate, butyl acetate and 1-methoxypropylacetate-2 and with aromatic hydrocarbons such as toluene, xylene, Solvesso[®] 100 and ShellSol[™] A. However, the solutions formed must be tested for their storage stability. The product cannot be thinned with white spirit. Alcohols cannot be used as they react with Desmodur IL 1351 BA. 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.

Compatibility

Desmodur IL 1351 BA is compatible with a number of Desmophen[®] polyacrylate products such as Desmophen 1300 and 1100 and with Desmodur products such as Desmodur L and N.

As with any product, use of Desmodur IL 1351 BA in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

Properties / Applications

When combined with, for example, Desmophen 1300, Desmodur IL 1351 BA yields very fast-drying systems. These are used in, for example, the furniture industry where very short drying times and early sandability are required.

Handling 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 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.**

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Storage

Desmodur IL 1351 BA should be stored in tightly sealed original containers and protected from moisture, heat, and foreign materials. The product is sensitive to moisture. Storage at higher temperatures may result in increased viscosity. Recommended storage temperature is greater than 0°-30°C.

Storage time

Desmodur IL 1351 BA has a shelf life of nine months from date of receipt at customer, provided the material is stored in sealed original containers at the recommended storage temperature.

Other Information

Desmodur[®] and Desmophen[®] are registered trademarks of Covestro AG.

Solvesso[®] is a registered trademark of Exxon.

ShellSol[™] is a trademark of Shell.

Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling this product. Before working with this product, you must read and become familiar with the available information on its risks, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., safety data sheets and product labels. For further information contact your Covestro LLC representative or the Product Safety and Regulatory Affairs Department in Pittsburgh, PA.

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.

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