



DESMODUR[®] PL 350 MPA/SN

Characterization

Desmodur PL 350 MPA/SN is a blocked aliphatic polyisocyanate based on HDI.

It is suitable for use in combination with polyol components for the formulation of lightfast one-component polyurethane stoving coatings.

Form supplied

Form supplied is approximately 75% in 1-methoxypropylacetate-2/solvent naphtha 100, 8 : 17.

Characteristic data

Property	Value	Unit of measurement	Method
Non-volatile content (0.2 g / 60 min / 80°C)	75 ± 2	%	
Viscosity at 23°C	4,300 ± 1,500	mPa•s	
Color value	≤ 100		

Other data*

Property	Value	Unit of measurement	Method
Equivalent weight	approx. 400		
Blocked NCO content	approx. 10.5	%	
Density at 20°C	approx. 1.10	g/cm ³	
Flash point	approx. 53	°C	

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



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Solubility / thinnability

Generally speaking, Desmodur PL 350 MPA/SN has good compatibility with the solvents listed. However, the solutions formed must be tested for their storage stability.

Desmodur PL 350 can be thinned to a solids content of 40% by weight with ketones, esters and ether esters. It can also be thinned to 60% by weight using higher boiling aromatic mixtures such as solvent naphtha 100 and 150. The product has only limited thinnability with aromatic hydrocarbons. Aliphatic hydrocarbons are unsuitable as diluents.

Compatibility

Compatibility of any mixtures must be tested in each individual case.

Properties / Applications

Combined with suitable Desmophen[®] products, Desmodur PL 350 MPA/SN can be used in the formulation of weather-stable, lightfast, chemically resistant and highly heat-stable one-component polyurethane stoving coatings for use in automotive finishing.

Compared with polyisocyanates blocked with butanone oxime, Desmodur PL 350 MPA/SN allows a reduction in the stoving temperature of approximately 10°C, with no decrease in solvent and chemical resistance.

As with any product, use of Desmodur PL 350 MPA/SN in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

Handling instructions

This product contains reactive HDI polyisocyanate/prepolymer and/or monomeric HDI and should only be handled using appropriate protective measures. Please review this product's Safety Data Sheet for a summary of such protective measures. These products are suitable only for and should only be sold for use by industrial or trade (commercial) professionals. These products are not suitable for Do-It-Yourself applications.



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Storage

Desmodur PL 350 MPA/SN should be stored in tightly sealed original containers and protected from moisture, heat, and foreign materials. 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. Recommended storage temperature is 0°-30°C.

Storage time

Desmodur PL 350 MPA/SN has a shelf life of six 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.

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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page 3 of 3

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 **Desmodur[®]**

Product Datasheet

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