

Desmodur[®] E 28

Characterization

Desmodur E 28 is a polyisocyanate prepolymer based on diphenylmethane diisocyanate (MDI).

Characteristic data

Property	Value	Unit of measurement	Method
NCO content	15.5 - 17.5	%	
Viscosity at 25°C	5,200 - 7,600	mPa•s	

Other data*

Property	Value	Unit of measurement	Method
Flash point (PMCC)	460	°F	
Equivalent weight avg. (as supplied)	255		
Appearance	Brown liquid		
Specific gravity at 20°C	1.14		
Solids	100	Wt. %	
Weight per gallon at 25°C	9.5	lb.	

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

Solubility / thinnability

Desmodur E 28 polyisocyanate is readily soluble in esters, ketones and aromatic solvents. Alcohols react with polyisocyanates and should not be used. Only dry solvents and pigments should be used with Desmodur E 28 polyisocyanate resin.

Properties / Applications

As corrosion-resistant primers, coatings based on Desmodur E 28 polyisocyanate can be formulated to contain zinc as zinc-rich primers that give galvanic protection. To ensure satisfactory intercoat adhesion, recoating intervals must be determined. The high NCO content of Desmodur E 28 also makes it an important curing agent for two-component systems. Desmodur E 28 polyisocyanate is an outstanding material for moisture-curing one-component formulations and is highly recommended to prime and seal porous substrates. Clear formulations of this type are effective dust-binding impregnants as well as sealers for cement and other substrates because they can protect the substrate from chemicals, deicing salt, and mineral oils.



Desmodur[®] E 28

Coatings based on Desmodur E 28 polyisocyanate are also used for mold releasing in the building and construction industries. Because of their good resistance to alkalis, they are suitable adhesion primers for solvent-free coating compositions based on Desmodur polyisocyanates, Desmophen polyesters, and Desmophen polyethers. Appropriate catalysts may be added to coatings formulated with Desmodur E 28 to influence the curing reaction rate. As with any product, use of Desmodur E 28 in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

Storage	Desmodur E 28 polyisocyanate should be stored in cool areas in tightly closed containers protected from moisture.
Storage time	The shelf life is six months after receipt of material by customer.
Other Information	Desmodur [®] is a registered trademark of Covestro AG.
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.

Editor: Covestro LLC
1 Covestro Circle
Pittsburgh, Pennsylvania 15205
United States
www.covestro.com

Contact:
CAS Single Point of Contact Office
Tel. 412-413-3983

page 2 of 2

Document contains important information and must be read in its entirety.

Edition 2017-10-18

Replaces edition dated 2009-01-19

 **Desmodur[®]**
Product Datasheet