

Desmocap[®] 11 A

Characterization

Desmocap 11 A is a branched polymer with ether and urethane groups; contains crosslinking, blocked isocyanate groups.

It is suitable as a raw material for use in the flexibilization of epoxy resins and the formulation of flexible coatings and sealing compounds.

Form supplied

Form supplied is a solvent-free liquid of high viscosity.

Characteristic data

Property	Value	Unit of measurement	Method
Blocked NCO content	approx. 2.4	%	
Viscosity at 25°C	60,000 - 120,000	mPa•s	
Color (Hazen)	≤ 200		

Other data*

Property	Value	Unit of measurement	Method
Appearance	Clear, slightly yellow liquid		
Solids	100	wt.-%	
Specific gravity at 20°C	1.05		
Weight per gallon at 20°C	8.7	lb.	
Flash point (Cleveland Open cup)	210	°C	

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

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Solubility / thinnability

Generally speaking, Desmocap 11 A has good compatibility with esters, ketones, ethers, aromatics, various flexibilisers, oil of turpentine and Kristallöl 60 (white spirit). However, the solutions formed must be tested for their storage stability. Only PU grade solvents should be used (< 0.05% water). The solvent should not contain reactive groups.

Prolonged storage of a solution with low binder content may result in turbidity and sedimentation.

Compatibility

Generally speaking, Desmocap 11 A has good compatibility with liquid epoxy resins, flexibilisers and various liquid amines.

Properties / Applications

Desmocap 11 A can be used to formulate curable, liquid, solvent-free polyurethane systems. The polyamines normally used with epoxy resins are suitable curing agents. The best results are obtained with cycloaliphatic diamines, e.g. Laromin[®] C 260, Ancamine[®] XT, TCD-Diamin, xylene diamine, etc. When combined with epoxy resins, Desmocap 11 A takes on the function of a reactive flexibilizer.

As with any product, use of Desmocap 11 A in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.



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Handling instructions

This product contains reactive TDI polyisocyanate/ prepolymer and/or monomeric TDI 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.

Storage

Desmocap 11 A should be stored in tightly sealed original containers and protected from moisture, heat, and foreign materials. The product should always be stored in its sealed original containers. Storage at high temperatures may result in increased viscosity. Recommended storage temperature is 10°-30°C.

Other Information

Desmocap[®] is a registered trademark of the Covestro Group.

Storage time

Desmocap 11 A 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.

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 utilize 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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