

# Desmodur<sup>®</sup> E 14

## Characterization

Desmodur E 14 is an aromatic polyisocyanate prepolymer based on toluene diisocyanate (TDI).

It is suitable for use in the formulation of highly flexible coatings, sealers and two-component PU sealing compounds.

## Form supplied

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

## Characteristic data

Property	Value	Unit of measurement	Method
NCO content	3.3 ± 0.2	%	
Viscosity at 23°C	6,800 ± 1,200	mPa•s	
Monomeric TDI	< 0.5	%	

## Other data\*

Property	Value	Unit of measurement	Method
Equivalent weight	approx. 1,270		
Flash point	approx. 200	°C	
Density at 20°C	approx. 1.05	g/ml	
Iodine color value	< 2		

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

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## Solubility / thinnability

Generally speaking, Desmodur E 14 has good compatibility with esters such as ethyl acetate, butyl acetate and 1-methoxypropylacetate-2 and with aromatic hydrocarbons such as toluene, xylene and Aromatic 100. However, the solutions formed must be tested for their storage stability. Alcohols cannot be used because they react with Desmodur E 14. 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.

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## Properties / Applications

Desmodur E 14 can be combined with Hardener DT to formulate highly flexible sealers. Used in one-component PU formulations, Desmodur E 14 will improve flexibility.

As with any product, use of Desmodur E 14 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.



# Desmodur<sup>®</sup> E 14

<b>Storage</b>	Desmodur E 14 should be stored in tightly sealed original containers and protected from moisture, heat, and foreign materials. The product is sensitive to moisture and should therefore be stored in its sealed original containers. Storage at high temperatures results in increased viscosity. Recommended storage temperature is 10°-30°C.
<b>Storage time</b>	Desmodur E 14 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.
<b>Other Information</b>	Desmodur <sup>®</sup> is a registered trademark of the Covestro Group.
<b>Health and Safety Information</b>	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.

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 **Desmodur<sup>®</sup>**  
Product Datasheet