



Desmodur® ultra E 14

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Low-monomer polyisocyanate
for flexibility



Elastic and versatile for a range of applications

Demand for easier to handle, low-emission coatings, adhesives, and sealants is rising in the architecture and construction sector. To meet this need, Covestro created Desmodur® ultra E 14—a newly formulated TDI polyisocyanate prepolymer containing <0.1% residual monomer content by weight. An evolution of the popular Desmodur® E 14 solution from Covestro, Desmodur® ultra E 14 offers the same effectiveness, waterproofing, and flexibility for coatings and two-component polyurethanes, and is designed to simplify handling requirements in accordance with current transportation regulations in selected countries.

Elastic properties and formulation freedom

As a solution with high elasticity, **Desmodur® ultra E 14** enables solutions to expand and contract without cracking, making the resin well-suited for shock absorption and reducing noise in various high-traffic scenarios. Crucially, this elasticity also helps the solution maintain its waterproofing properties even after being exposed to extreme variations in environmental temperature. As a result, **Desmodur® ultra E 14** effectively prevents leaks for a range of materials. Typical applications include waterproofing concrete roofs and areas with high traffic volumes, such as bridges.

Want to learn more?

Visit to our Solution Center:



Covestro Deutschland AG
Kaiser-Wilhelm-Allee 60
51373 Leverkusen
Germany

solutions.covestro.com

Desmodur® ultra E 14 is also compatible with a wide range of solvents, empowering manufacturers to create formulations that address a broad variety of unique use cases, from waterproofing to adhesion. Moreover, manufacturers can adjust the properties of the final product by reacting **Desmodur® ultra E 14** with various substances.

Key benefits of Desmodur® ultra E 14:

- **Formulation freedom** for use with a wide range of solvents
- High **elasticity**
- Residual monomer content of **<0.1%**

Applications

- Concrete/bitumen roof waterproofing
- Reducing noise and vibration impact in high-traffic areas

Specification

PROPERTY	VALUE	UNIT OF MEASUREMENT	METHOD
NCO content	3.3 ± 0.2	%	DIN EN ISO 11 909
Viscosity at 23°C	6,800 ± 1,200	mPa·s	DIN EN ISO 3219/A.3
Monomeric TDI	< 0.5	%	DIN EN ISO 10 283

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¹Please see the "Guidance on Use of Covestro Products in a Medical Application" document.

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