



Desmodur® E 22000

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Moisture-curing prepolymer with
fantastic flex and flow



High-performance elastic binder engineered for impact-absorbing floors

When it comes to creating safe, comfortable, and long-lasting sports tracks, in-situ shock pads and playgrounds, shock absorption and tensile strength are key. However, striking the right balance between these essential properties presents a significant challenge for installers. Made with 100% solids content, Desmodur® E 22000 is a new aromatic polyisocyanate prepolymer based on MDI and engineered for outdoor flooring and tracking—from playgrounds to athletics tracks.

In addition to optimized curing times, delivering long-lasting elasticity, and durability, Desmodur® E 22000 can be used as a binder. In a variety of recycling applications, bonding together different kinds of shredded materials such as rubber, gravel, flexible polyurethane foams, cork, and/or wood particles.

Medium viscosity prepolymer for versatile PU systems

Desmodur® E 22000 is especially well-suited for formulating highly flexible one- and two-component polyurethane adhesives and coatings. Its medium viscosity supports efficient mixing and application, while high elasticity ensures long-lasting shock-absorbing performance in demanding outdoor environments. Additionally, this prepolymer is compatible with Desmophen®, Baycoll®, and other Desmodur® products from Covestro, as well as PU-grade solvents with a water content of less than 0.05%.

Want to learn more?

Head to our Solution Center to learn more:



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When combined with recycled rubber granules, Desmodur® E 22000 supports the creation of more sustainable and resilient substrates for sports and playground surfaces, combining technical performance and sustainability in a single solution.

Key benefits of Desmodur® E 22000:

- Moisture-curing, solvent-free, single-component PUR binder based on MDI
- Well-balanced viscosity that makes the material easy to work with
- Applicator-friendly processing time
- Externally tested in accordance with latest EN 14808 & EN 12230 norms

Applications

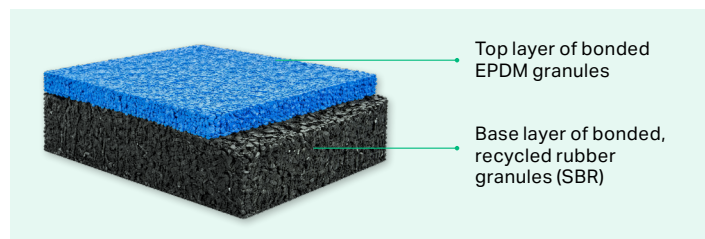
- Formulation base for flexible 1K applications
- Durable bonding E-layer or sports fields, tracks, and playgrounds
- Rubber granule bonding for SBR and EPDM

Specification

PROPERTY	TEST CONDITION	VALUE	UNIT	STANDARD
NCO content		8.3 - 8.9	%	M105 - ISO 11909
Dynamic viscosity	23°C	2,400 - 3,200	mPa · s	M014 - ISO 3219/A.3

Typical Values

PROPERTY	TEST CONDITION	VALUE	UNIT	STANDARD
Equivalent weight		490		
Density	20°C	1.08	g/cm ³	DIN 53217



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