

DMDC

3,3'-Dimethyl-4,4'-diaminodicyclohexylmethane

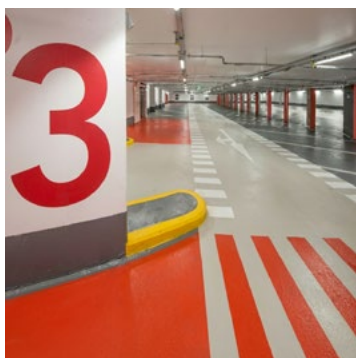
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High-Performance Amine

DMDC / Baxxodur EC 331 (3,3'-Dimethyl-4,4'-diaminodicyclohexylmethane) also known as MACM, is a cycloaliphatic diamine curing agent and chain extender designed for high-performance **epoxy**, **polyurethane** (PU), **polyurea** and **polyamide systems**. It offers an exceptional combination of high thermal resistance, mechanical strength, and chemical durability in cured formulations. This versatile molecule also serves as a key material in polyurea chemistry, enhancing the toughness and longevity of those materials.

Major Application Areas



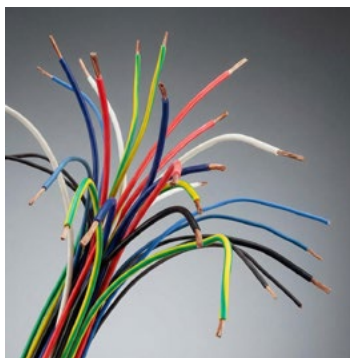
Industrial Coatings



Marine Coatings



Composites



Electronics

Structural adhesives (automotive, aerospace), Composite laminates (wind energy, polyamides, sporting goods), Electronics encapsulation and potting, PU and polyurea elastomers (protective flooring, infrastructure), Intermediate for UV-stable PU paints and transparent elastomers.



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DMDC Features

Thermal Stability: DMDC unique structure offers a high glass transition temperature for extreme condition stability.

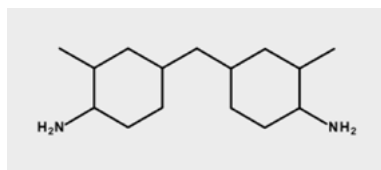
Mechanical Strength: With a high tensile strength and flexural strength, DMDC is ideal for structural and load-bearing applications.

Chemical and Moisture Resistance: DMDC provides excellent resistance against chemicals and moisture, crucial for coatings and adhesives in harsh environments.

Processing Flexibility: DMDC provides formulators with processing optimization options for epoxy, polyurea, and polyamide applications.

Curing agent characteristics (typical values)

Chemical properties	Value	Unit	Method
Purity	Min. 99.6	[%]	GC
Water	Max. 0.1	[%]	DIN 51777
Color	Max. 12	APHA	DIN EN 1557
Refractive Index	1.4998	-	DIN 51423
Density at 20 °C	0.9456	[g/cm ³]	DIN 2811-3
Amine Value	~ 470	[mg KOH/g]	DIN 16945
Viscosity at 20 °C	~ 145	[mPa*s]	DIN 3219



CAS: 6864-37-5

Packaging:
Drums (180 KG)



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