Technical Data Sheet

Metadur 1200 Epoxy-Urethane Elastomer

Revision: July 2026

Product Description

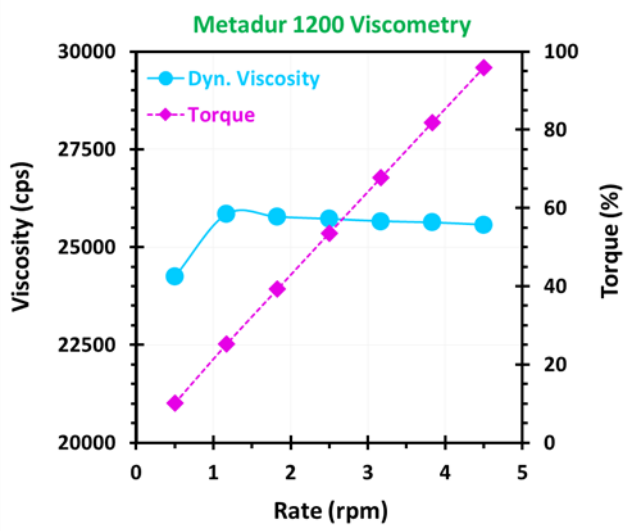
Metadur 1200 is a solvent-free liquid epoxy resin/Polyurethane hybrid network having integrated advantages of epoxy and polyurethane resins using their chemical structure. This product contains medium molecular weight and low-to-high viscosity. This resin can be cured with different types of aliphatic or cycloaliphatic amines, amides, and acid anhydride-based curing agents.

Application Areas

Metadur 1200 is used to formulate tough, flexible-to-high elastic coatings, sealants, and composites with high performance. It has been used in construction, aerospace, marine, and electronic applications.

Storage & Packaging

The container of Metadur 1200 must be stored in a cool and dry area, and keep it closed when not in use. The shelf life under appropriate storage conditions is 12 months. This Product is available in 200 Liter drums and 1000 Liter IBCs.



Product Specification

Property	Unit	Value	Standard
Appearance	-	Colorless Transparent	-
Viscosity (22 °C, L3 Spindle, 0.5 – 5 rpm)	Pa.s	24 – 27	ASTM D445
Density at 25°C	g/cm^3	1.14 – 1.16	ASTM D792
Volatiles	%	0.5 – 2	ASTM D1353
Glass Transition Temperature	°C	60 ± 1	ASTM E1356
Epoxy Equivalent Weight (EEW)	g/eq	160 – 180	ASTM D1652
Hardness (Shore D)	-	35 – 45	ASTM D2240
Recommended Proportion with Hardener **F205 (AHEW = 102 – 105 g/eq)** **TETA (AHEW = 24 g/eq)** **IPDA (AHEW = 43 g/eq)**	phr*	 56 – 64 14 – 16 24 – 27	Calculated
Pot life at 25 °C, 50 g **F205** **TETA** **IPDA**	min	 57 – 63 13 – 17 58 – 65	-

*phr: parts per hundred of resin

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