Technical Data Sheet

Polyamidoamine Curing Agent Metacure® SH615

Revision: September 2025

Product Description

Metacure® SH615 is a high-viscosity polyamidoamine curing agent with 80 %wt. solid content designed for protective systems. It is used as an epoxy coating's hardener to enhance corrosion resistance, particularly in marine and structural steel applications. The Metacure® SH615's ability to create hydrophobic films also contributes to its effectiveness in long-term protection against corrosion.

Application Areas

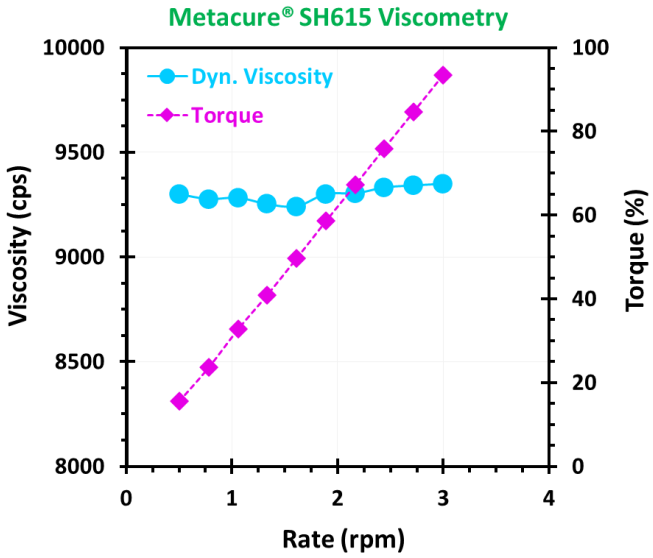
The Metacure® SH615 is used in the formulation of room temperature curing with solid epoxy resin or their solutions, such as Epoxy Ker 3001 or EPIRAN 01. It is suitable for cold-curing solvent-based epoxy coatings in applications requiring good adhesion, flexibility, chemical resistance, and especially in corrosion-resistant protective applications.

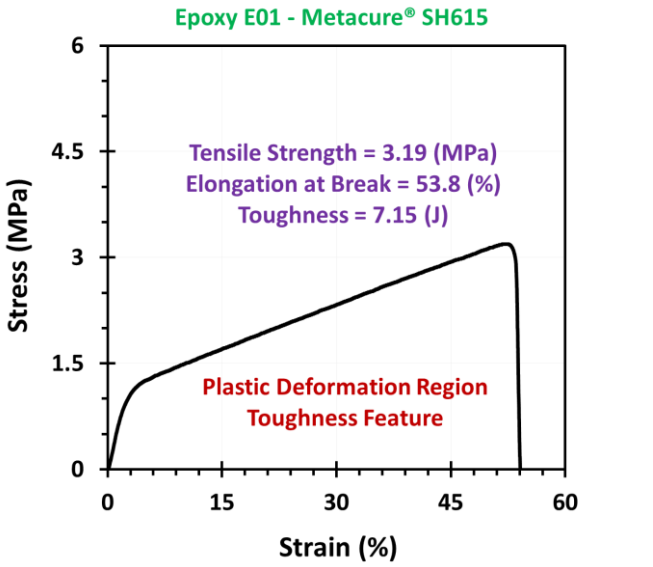
Benefits

- Suitable Pot life
- Good adhesion and flexibility
- High anti-corrosion properties
- Remarkable balance between hardness and flexibility
- High elongation and toughness features

Safety, Storage & Handling

Metacure® SH615 is slightly hygroscopic and should be stored at room temperature in conditions such that moisture is excluded, in the original containers kept tightly closed. The Metacure® SH615's shelf life is about 2 years in sealed containers at room temperature.





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Product Specification

Property	Unit	Value	Test Method/Standard
Solid Content	%	80 ± 1	ASTM D2369
Viscosity (25 °C, L2 Spindle, 0.5-3 rpm)	Pa.s	9.1 – 9.5	ASTM D445
Color	Gardner	≤ 12	ASTM D1544
Amine Value	mg KOH/gr	210 – 250	ISO 9702
Density at 25°C	kg/l	0.94 – 0.98	ASTM D792
Amine Hydrogen Equivalent Weight (AHEW)	g/eq	253 – 257	ISO 9702
Recommended Proportion with EPIRAN 01-X75 (EEW=434-555)	Phr*	46 – 55	calculated
Mechanical Properties (with EPIRAN 01-X75): ➢ **Tensile Strength** ➢ **Elastic Modulus** ➢ **Toughness** ➢ **Elongation at Break**	 MPa MPa J %	 2.5 – 4 20 – 50 4 – 9 48 – 55	 ASTM D638
Pot life at 27±1 °C, 50 g	min	120 ± 5	-

*phr: parts per hundred of resin

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