Technical Data Sheet

Polyamine Curing Agent Metacure® PC205

Revision: September 2025

Product Description

Metacure® PC205 is a low-viscosity, modified cycloaliphatic polyamine curing agent designed for epoxy systems. It has a low viscosity in the form of a clear to slightly yellow liquid. It reacts with epoxy resins at room temperature to provide a robust cross-linked 3D network. Its cycloaliphatic structure imparts stable reactivity, higher mechanical strengths, better moisture and thermal resistances, and lower VOC emissions than traditional hardeners.

Application Areas

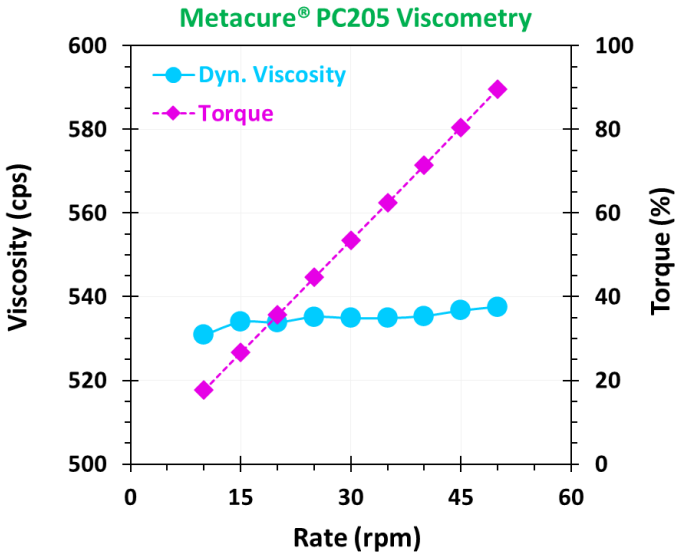
Metacure® PC205 is used in the formulation of room-temperature curing compositions, especially where low viscosity and strong performance are required, such as industrial floorings, tank linings, solvent-free coatings, concrete adhesives, laminates (where low-temperature curing and moisture resistance are critical), etc.

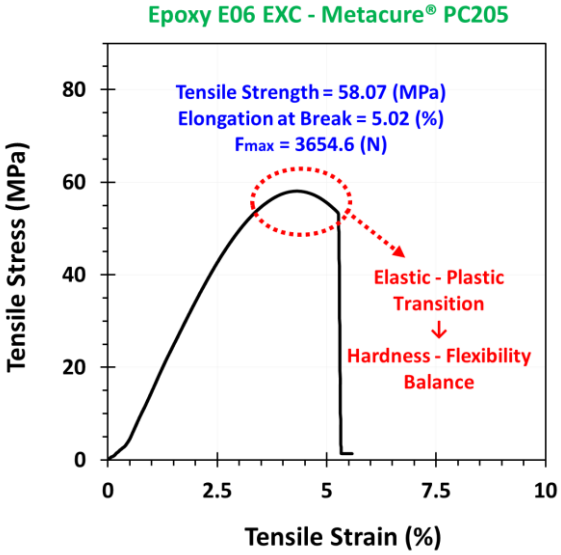
Benefits

- Low viscosity
- Excellent surface appearance (gloss retention)
- High mechanical performance
- Good balance between hardness and flexibility
- Suitable blush and moisture resistance
- Low VOC

Safety, Storage & Handling

Metacure® PC205 is slightly hygroscopic and should be stored at room temperature in conditions such that moisture is excluded, in the original containers kept tightly closed. Under these conditions, the shelf life should be a minimum of two years from the date of certification.





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Product Specification

Property	Unit	Value	Test Method/Standard
Viscosity (22 °C, L2 Spindle, 10-50 rpm)	mPa.s	500 – 600	ASTM D445
Color	Gardner	≤ 2	ASTM D1544
Density at 25°C	kg/l	1.02 – 1.05	ASTM D792
Basic Nitrogen Content	% m/m	6.0 – 8.0	ASTM D2896
Amine Hydrogen Equivalent Weight (AHEW)	g/eq	102 – 106	ISO 9702
Recommended Proportion with EPIRAN 06 SPL (EEW=185-192)	phr*	53 – 57	Calculated
Pot life at 25±1 °C, 50 g	min	35 – 40	-
Mechanical Properties (with EPIRAN 06):			ASTM D638
➢ **Tensile Strength**	MPa	55 – 60	
➢ **Elastic Modulus**	MPa	1900 – 2000	
➢ **Toughness**	J	10 – 13	
➢ **Elongation at Break**	%	4.5 – 6	

*phr: parts per hundred of resin

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