Technical Data Sheet

Epoxy Resin SLV20

Revision: September 2025

Product Description

SLV20 is a liquid epoxy resin having low viscosity. This is fabricated through dilution of bisphenol A-type epoxy resin with chemical reactive diluents, and therefore, the reduced viscosity would be desirable. This diluted epoxy resin can be cured with polyamine hardeners like Metacure® PC205t.

Application Areas

The SLV20 is highly suitable for decorative applications, having high mechanical strength. This resin is also used for room temperature-cured applications, including flooring material, mortar, grout, reinforcements, glues, besides laminates (electrical & electronic devices) and potting agents. When this product cures with specialized hardener Metacure® PC205t, high toughness properties, i.e., excellent hardness-flexibility, besides high elongation and stiffness features have been achieved.

Benefits

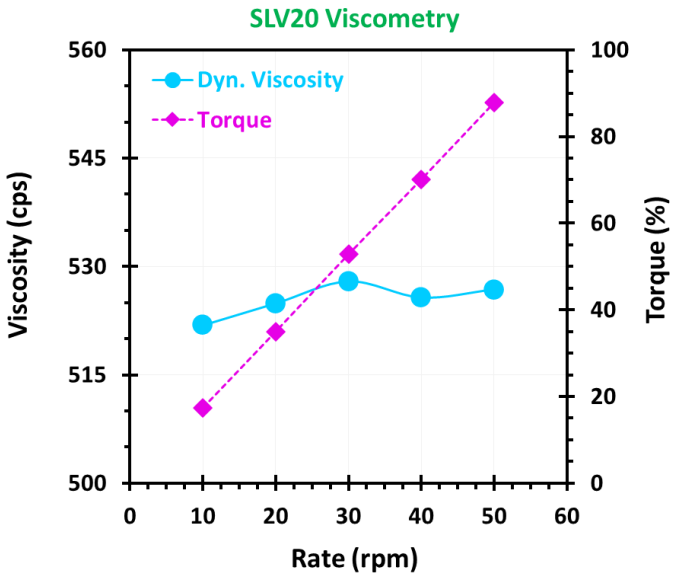
- Very low viscosity
- High transparency
- Enhanced Mechanical Features
- Reasonable cost

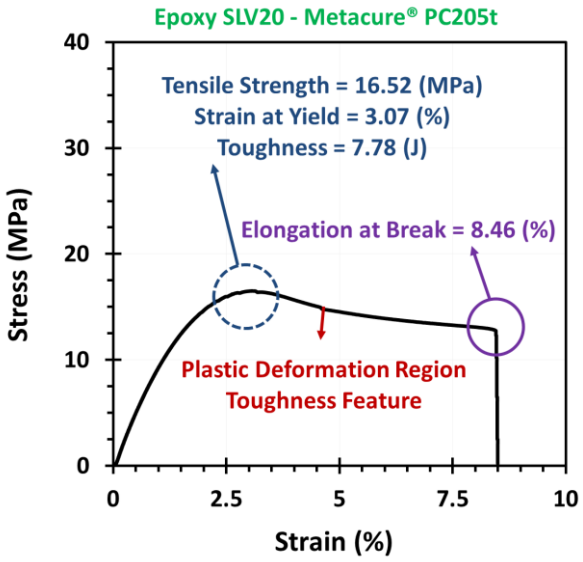
Decorative Application Advantages

- Self-leveling coatings: smooth, glossy finish without bubbles.
- Artistic epoxy pours: improved flow for resin art, countertops, and tabletops.
- Thin-film coatings: avoid orange peel effect.
- Color effects: better pigment dispersion and marbling in decorative pours

Safety, Storage & Handling

SLV20 should be stored in conditions so that moisture is excluded, preferably in the original containers kept tightly closed. The storage life at normal temperatures is at least one year. If SLV20 develops a haziness or crystallizes on storage, this can be restored to its original condition by warming to 45-50 °C with stirring.





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Product Specification

Property	Unit	Value	Test Method
Appearance	-	Transparent colorless liquid	Visual
Viscosity (23 °C, L2 Spindle, 10-50 rpm)	mPa.s	500 – 600	ASTM D445
Density at 25°C	kg/l	1.10 – 1.15	ASTM D792
Epoxy Equivalent Weight (EEW)	g/eq	180 – 182	ASTM D1652
Recommended Proportion with Metacure® PC205t Hardener (AHEW=102-105)	Phr*	56 – 58	calculated
Mechanical Properties (with Metacure® PC205t): ➢ **Tensile Strength** ➢ **Elastic Modulus** ➢ **Toughness** ➢ **Elongation at Break**	 MPa MPa J %	 13 – 19 1100 – 1500 7 – 11 8 – 13	ASTM D638
Pot life at 25±1 °C, 50 g	min	76 – 80	-

*phr: parts per hundred of resin

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