

Shenzhen Jianghe New Materials Technology Co.,Ltd

Technical Data Sheet (TDS)

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Doc No.: EPR-318AB-9T-2-TDS-001

Issue Date: 2023-05-21

Revision: 1.0

318AB-9T-2

Typical Properties

Epoxy Resin 318AB-9T-2 Series is a two-component epoxy adhesive formulated to cure under ambient or elevated temperature conditions. It offers high transparency and effective self-debubbling properties.

Features

A single batch can pour 10–15 kg (laboratory-tested up to 18 kg) at a thickness of 10 cm.

Applications

Suitable for various river tables, large craft encapsulation, artificial water feature casting, wood-resin table bonding, gemstone resin potting, ashtrays, miniature landscape pouring, and other applications requiring high-clarity crystal resin.

The product is supplied as separate base and hardener components, which must be mixed thoroughly at the specified weight ratio to form a transparent cured resin.

Product Characteristics

- 1.Excellent self-debubbling, temperature resistance, and wear resistance; cures to a smooth, glossy surface with high flatness, free from ripples and tack.
- 2.High transparency with good gloss and strong adhesion.
- 3.High weatherability and UV resistance after curing; maintains stable performance across a wide temperature range (0 °C to 80 °C).

Physical & Chemical Properties

Property	Part A: 318A-9T-2	Part B: 318B-9T-9L
Color	Colorless Transparent	Colorless Transparent
Viscosity (mPa•s)	750±50	100±50
Brookfield DV2TRV Viscometer	25°C	
Mix Ratio (by Weight)	2 : 1	
Mix Ratio (by Volume)	1.7:1	

Properties of Cured Material

Property	Base + Curing Agent
Physical State	Liquid
Brookfield DV2TRV Viscometer	25°C
Pot Life (100g mass @ 25°C)	2-3h

Processing & Curing Parameters

Initial Cure (100g)	Surface dry in 10h (ambient)
Full Cure (100g)	14-16 hours at Room Temperature (RT)
Service Temperature Range	0°C to 80°C

Application Instructions

Working Conditions: Ensure the mixing container is clean. Measure Components A and B strictly by the designated weight ratio. After accurate weighing, stir the mixture thoroughly in a clockwise direction, scraping the inner walls of the container. Allow the mixture to rest for 3-5 minutes before application.

Precautions

- Dosage Control:** Prepare the adhesive quantity based on the pot life and application rate to avoid waste.
- Low-Temperature Handling:** When the ambient temperature falls below 15°C, preheat Component A to 30°C before mixing to facilitate easier application, as the viscosity increases in cold conditions.

3. **Storage After Use:** The container must be sealed immediately after use to prevent moisture absorption, which can render the product unusable.
4. **High-Humidity Curing:** At relative humidity levels above 85%, the cured surface is prone to absorbing moisture from the air, forming a whitish haze. Therefore, room temperature curing is not recommended under these conditions; heat-assisted curing is advised.

Test Result

Hardness	Shore A	83
Water Absorption	%	<0.1

Save

Freeze-Sensitive	Yes	
Moisture-Sensitive	Resin	Curing Agent
	No	Sensitive
Recommended Storage Temperature	15°C to 25°C (Must not fall below 10°C or exceed 50°C.)	
Shelf Life	6 months in original, unopened packaging	
Packaging	Resin	Curing Agent
	5 kg pail	5 kg pail

Note: The performance data provided above are typical values obtained under laboratory conditions of 25°C and 70% relative humidity. They are for reference purposes only.