

HS-752 “Polysilazane Matrix” High Performance Resin System

HS-752 High Performance composite Resin is a 2 part 100% solids, Low Temperature Cure Resin System with High Temperature Performance.

Mix ratio:

Part A – **100 parts by weight** (Clear liquid resin)

Part B – **160 parts by weight** (Amber color liquid)

This mix ratio is critical to maintain the physical properties of the resin system.

Stir mix parts A & B together to thoroughly blend the components, before using.

Use Low to medium mixing rpm equipment when blending the resin system.

As a High Speed/Shear mixer forces may generate excessive air entrapment & heat build-up (exothermic) and shorten pot life, especially in larger mix batches. Resin bath should be kept at 75°F to 85°F.

Mixed Pot Life:

8 hrs at 77°F (25°C) = 1,560 cps

24 hrs at 77°F (25°C) = 5,000 cps

Higher temperatures will shorten the pot life.

If the pot life needs to be extended;

The mixed resin can be stored under refrigeration in a sealed container.

Allow the resin to warm up to before using, after being refrigerated, to help prevent any condensation accumulation, (dependent of Relative Humidity).

Cleanup of tools or other surfaces can be accomplished with MEK or other similar solvents.



General Specs & Cure details:

- **Viscosity;**
 - A. 1500-2000 cps
 - B. 350-450 cps
 - C. 780 combined @ 77°F
- **Epoxy Equivalent Weight;**
 - B. 131– 143
- **Anhydride Molecular Weight;**
 - A. 235-245
- **Gel time;**
 - @ 212°F / 23 minutes
 - @ 320°F / 90 seconds
- **TG by DMA; 245°C**
- **Heat Distortion: 210°C**
- **Tensile Strength: 5868psi**
- **Tensile Elongation: 2.7%**
- **Tensile Modulus: 215,000 psi**
- **Fracture Toughness: 730psi-in^{1/2}**

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