

Section 1: Description

This General Purpose (GP) epoxy system is a low color, low viscosity modified cycloaliphatic amine cured system intended for ambient or low temperature curing. GP gives high modulus, high gloss films that are also resistant to a variety of chemicals. It's high modulus characteristics makes it very useful in composite structures. These properties make it ideal for use in sports equipment, floorings, maintenance coatings, tank linings, secondary containment linings and composites. Two hardener speeds add to versatility. Mixing these two gives a myriad of custom curing options.

Section 2: Advantages

- Very low color
- Medium viscosity
- High gloss
- Good resistance to amine blush
- Price point

Section 3: Applications

- High-solids coatings
- Composites
- Chemically resistant tank linings
- Sports equipment

Section 4: Handling Precautions

Refer to the Safety Data Sheet

Section 5: Storage Life

At least 12 months from the date of manufacture in the original sealed container at ambient temperature. Store away from heat and excessive humidity in tightly closed containers.

Section 6: Typical Properties

In Combination with RR GP epoxy resin
Appearance: Clear Liquid
Color (Gardner) 1
Viscosity @ 77 °F (cP) 1400 mixed
Amine Value (mg KOH/g) 498
Specific Gravity @ 77 °F 1.02
Density @ 77 °F (lb/gal) 8.6
Flash Point (closed cup) (°F) 205
Equivalent Wt/{H} 55
Recommended Mix Ratios:
100 - 30phr weight or 100 - 33phr volume

Section 7: Typical Handling Properties

Use Level (phr) 30W/33V
Mixed Viscosity @ 77 °F (cP) 1400
Gel Time (130g mix @ 77 °F) (min)
23 Minutes - Fast Hardener
140 Minutes - Slow Hardener
Thin Film Set Time
@ 77 °F (hr) 2.5 Fast - 14 Slow
@ 50 °F (hr) 8 Fast - 36 Slow
Peak Exotherm (100g mix @ 77 °F)
Fast 188F; Slow 150F
Peak Exotherm Time (min)
30 Fast; 200 Slow

Section 8: Typical Performance

(7 day cure @ 77 °F)
Heat Deflection Temperature (°F) 125
Tensile Strength (psi) 9500
Tensile Modulus 398,000
Tensile Elongation (%) 4.3
Flexural Strength (psi) 14,400
Flexural Modulus 470,000
Hardness (Shore D) 83
Compression Yield 15,200
Mar Resistance (kg) — 1.05

Section 9: Typical Cure Schedules

2-7 days at ambient temperature