

### Section 1: Description

Resin Research developed X-55 accelerator early in our history, over 30 years ago this low toxicity accelerator has shortened cycle times in a myriad of production scenarios. First developed before the chemistry to make faster reacting hardeners this chemistry originally added to our 2100S hardener made production possible in colder climates and made faster production possible in summer. With faster reacting hardeners X-55 is not as necessary as it once was but in cold climates and in production that requires accelerated cycle times it still finds use. Mix amounts vary from 2-4% of the resin/hardener total mixture.

### Section 2: Advantages

Decrease cycle times across product lines

### Section 3: Applications

- Faster production in cold climates
- Faster production cycles in general
- Faster cycles in time sensitive applications

### 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 2040 epoxy resin

Appearance: clear liquid

Color (Gardner) 1 - 2

Viscosity 1.70 cps

Specific Gravity @ 77 °F 1 kg per L

Density @ 77 °F 1

Flash Point (closed cup) (°F) NA

Recommended Mix Ratio: 3-6% mix by volume with epoxy/hardener mixture

### Section 7: Typical Handling Properties

Gel Time (130g mix @ 77 °F) (min)

15 Minutes - Fast Hardener

30 Minutes - Slow Hardener

Thin Film Set Time

@ 77 °F (hr) 1 Fast - 3 Slow

@ 57 °F (hr) 4 Fast - 10 Slow

Peak Exotherm (100g mix @ 77 °F)

Fast 210F; Slow 190F 22 Fast - 48 Slow

Use Level: 3 - 6% of epoxy/hardener mixture

### Section 8: Typical Performance

Reacted polymer:

(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

### Section 9: Typical Cure Schedules

Not Applicable