

DESCRIPTION

Amicure IC-40 is an amine curing agent specifically designed to cure with standard HDI Trimer or Biuret Isocyanates.

When formulated, Amicure IC-40 based clear and pigmented coatings exhibit very rapid property development, high aesthetics and are suitable for exterior applications. We recommend the use of a high solids or waterborne epoxy primer especially under damp conditions. Working & dry times are significantly accelerated under high humidity and temperature.

ADVANTAGES

- Long pot life
- Low color and excellent UV durability
- Excellent surface appearance

APPLICATIONS

- Industrial Coatings
- Floor Coatings

STORAGE LIFE

At least 18 months from the date of manufacture in the original sealed container at ambient temperature. Store away from excessive heat and humidity and avoid contact with moisture. Recommended storage temperature is 0-40°C.

HANDLING PRECAUTIONS

Refer to the Safety Data Sheet for Amicure IC-40 curing agent.

TABLE 1: TYPICAL PROPERTIES

Color (Gardner)	<2
Amine Equivalent Weight (AEW)	288-294
Specific Gravity	1.06
Viscosity @ 25°C (cPs)	500-1500

TABLE 2: TYPICAL HANDLING PROPERTIES

Isocyanate Resin	HDI Trimer*
Mix Ratio (curing agent to isocyanate by weight)	1.35 to 1.45
Use Level (phr)	135-145
Mix Viscosity (cPs @ 25°C)	2000-3000
Viscosity build (h) – time to 12,000 cPs	10-20

**TABLE 3: DRY FILM TIMES
(10MIL THICKNESS, 22°C 50% RH)**

Dry time, set to touch (h)	3-5
Dry time, tack free time (h)	8-10
Dry time, through cure (h)	~24

TABLE 4: TYPICAL FINAL PROPERTIES

UV Resistance (ΔE, QUV-A, 500hrs)	3.5
Tensile Strength (psi)	5000
Elongation @ Break (%)	3
Abrasion Resistance (mg loss, 1000 cycles, 1kg, CS17 wheel)	40
Gardner Impact Resistance (Direct / Reverse)	40/40

*HDI Trimer = 21.8 wt% NCO, 2500 cPs @ 25°C

Epoxy Curing Agents and Modifiers

Amicure® IC-40 Amine Curing Agent for Polyisocyanate Resin

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