

DESCRIPTION

Amicure IC-322 curative is an amine curing agent specifically designed to cure with standard HDI Trimer or Biuret Isocyanates for thin-film commercial and industrial flooring applications up to 20 mils.

Amicure IC-322 curative offers flexibility in formulating a high gloss or a satin finish with the addition of an external matting agent. Amicure IC-322 curative can provide clear and pigmented coatings that exhibit rapid property development, UV stability and high aesthetics. 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 conditions.

ADVANTAGES

- Formulations allow for smooth, satin finish
- Very low viscosity
- Low color and excellent UV durability
- Low temperature cure
- Can be cured with HDI trimer or biurets
- <100 g/L VOC (EPA method 24)

APPLICATIONS

- High and low gloss
- Clear & Pigmented Floor Coatings

SHELF 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

STORAGE AND HANDLING

Refer to the Safety Data Sheet for AMICURE IC-322 amine curing agent for polyisocyanate resin.

TYPICAL PROPERTIES

Color (Gardner)	<2
Amine Equivalent Weight (AEW)	373 - 385
Density (g/ml)	1.08
Viscosity @ 25°C (cPs)	90 - 120

TYPICAL HANDLING PROPERTIES

Isocyanate Resin	HDI Trimer*
Mix Ratio (curing agent to isocyanate by weight)	1.8 TO 2
Use Level (phr)	180 - 200
Mix Viscosity (cPs @ 25°C)	350 - 550
Viscosity build (min) – time to 12000 cPs	50 - 70

DRY FILM TIMES (10mil Thickness, 22°C 55% RH)

Dry time, set to touch (min)	45
Dry time, tack free time (min)	75
Dry time, through cure (h)	6 - 7

DRY FILM TIMES (10mil Thickness, 27°C 73% RH)

Dry time, set to touch (min)	35
Dry time, tack free time (min)	55
Dry time, through cure (h)	5 - 6

TYPICAL FINAL PROPERTIES

Persoz Hardness (10 mil)	150
UV Resistance (ΔE , QUV-A, 500hrs)	3.5
Gloss (60°)	92
Gloss (60°) with matting agent**	40-45
Abrasion Resistance (mg loss, 1000 cycles, 1kg, CS17 wheel)	50
Gardner Impact Resistance (Direct / Reverse)	> 160 />160

* HDI Trimer = 21.8 wt% NCO, 2500 cPs @ 25°C
 ** Acematt® 3600 (Evonik)

Epoxy Curing Agents and Modifiers

AMICURE® IC-322 Amine Curing Agent for Polyisocyanate Resin

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