

Product information

AMICURE[®] IC 20

Curing Agent for Polyisocyanate Resin

DESCRIPTION

Amicure IC 20 is an amine curing agent specifically designed to cure with standard HDI Trimer or Biuret Isocyanates.

When formulated, Amicure IC 20 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.

TYPICAL PROPERTIES

Property	Value	Unit	Method
Color	≤ 100	APHA	
Amine Equivalent Weight	276-282	AEW	
Specific Gravity	1.06		
Viscosity @ 25°C	500-1500	cPs	

ADVANTAGES

- Rapid hardness development #
- Low color and excellent UV durability #
- Low temperature cure

APPLICATIONS

- Industrial Coatings
- Floor Coatings

STORAGE AND HANDLING

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 20 curing agent.

TYPICAL HANDLING PROPERTIES

Property	Value	Unit	Method
Isocyanate Resin	HDI Trimer		HDI Trimer = 21.8 wt% NCO, 2500 cPs @ 25°C
Mix Ratio	1.3 to 1.4		curing agent to Isocyanate by weight
Use Level	130 - 140	phr	
Mix Viscosity @ 25°C	2000 - 3000	cPs	
Viscosity build	10 - 20	min	time to 12,000 cPs

DRY FILM TIMES (10MIL THICKNESS, 22°C 50% RH)

Property	Value	Unit	Method
Dry time, set to touch	5-15	min	
Dry time, tack free time	20-30	min	
Dry time, through cure	~1	h	

HARDNESS DEVELOPMENT (22 °C 50% RH)

Property	Value	Unit	Method
Shore D – 4 h	65		
Shore D – 6 h	77		
Shore D – 24 h	84		
Shore D Hardness, 12hrs @ 0°C	62		

TYPICAL FINAL PROPERTIES

Property	Value	Unit	Method
UV Resistance	3.8	ΔE	QUV-A, 500hrs
Tensile Strength	7500	psi	
Elongation @ Break	3	%	
Abrasion Resistance	48	mg loss	1000 cycles, 1kg, CS17 Wheel
Gardner Impact Resistance	40 / 40		Direct / Reverse

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