

AMICURE[®] DBU-E

Curing Agent

DESCRIPTION

Amicure DBU-E is a low ionic impurity grade of diazabicycloundecene which is an accelerator for phenolic novolac and other epoxy cures. Special features include highly efficient acceleration and excellent electrical insulation properties at high temperatures and high humidity. Applications include electrical encapsulation and transfer moulding powders.

TYPICAL PROPERTIES

Property	Value	Unit
Appearance	Light yellow liquid	
Purity	min 98.0	%
Viscosity @ 25°C poise	0.14	
Specific Gravity @ 25°C	1.11	
Flash Point closed cup	> 94	°C
Free water	max 0.5	%

ADVANTAGES

- Fast cure speed
- Satin finish coatings
- Coatings up to 500 µm in single pass
- Excellent surface appearance
- Low mix viscosity for improved handling
- Application by squeegee

APPLICATIONS

- Commercial and industrial flooring
- Satin finish topcoats

SHELF LIFE

At least 24 months from the date of manufacture in the original sealed container stored undercover at ambient temperature away from excessive heat and humidity.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Amicure DBU-E curing Agent.

CATALYTIC USAGE

1-5 phr with liquid epoxy resin having an EEW 190 and 90 phr liquid anhydride AEW178

TYPICAL HANDLING PROPERTIES

Property	Value	Unit
Gel Time (5 phr, 43g mix) @ 60°C	227	mins
Gel Time (5 phr, 43g mix) @ 90°C	23	mins
Gel Time (5 phr, 43g mix) @ 120°C	4	mins
DSC activation temperature	95	°C

TYPICAL CURE SCHEDULE

5 h @ 100°C plus 5 h @ 150 °C

TYPICAL PERFORMANCE PROPERTIES - (CATALYST LOADING 1 PHR)

Property	Value	Unit
Heat distortion temperature	168	°C
Barcol hardness (Model GYZJ935)	35	
Flexural strength	148	N / mm ²
Flexural modulus	2.94	KN / mm ²
Water absorption (1 h @ 100°C)	0.26	% wt gaom

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EVONIK OPERATIONS GMBH

Business Line Crosslinkers
Paul-Baumann-Str. 1
45764 Marl
Germany

www.evonik.com/crosslinkers

Product Information: APCSE@evonik.com

Sample Request: APCSE@evonik.com

EVONIK CORPORATION

Business Line Crosslinkers
7001 Hamilton Boulevard
Trexlerstown, PA 18087
USA

CrosslinkersProinfo@evonik.com

Crosslinkers-Samples@evonik.com

**EVONIK SPECIALTY CHEMICALS
(SHANGHAI) CO., LTD.**

Business Line Crosslinkers
55, Chundong Road
Xinzhuang Industry Park
Shanghai, 201108
China

CL-Asiainfo@evonik.com

CL-Asiainfo@evonik.com

