

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.

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.

TYPICAL PROPERTIES

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

CATALYTIC USAGE

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

TYPICAL HANDLING PROPERTIES

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

TYPICAL CURE SCHEDULE

5 h @ 100°C plus 5 h @ 150 °C

**TYPICAL PERFORMANCE PROPERTIES —
(CATALYST LOADING 1 PHR)**

| | |
|--|------|
| Heat distortion temperature, °C | 168 |
| Barcol hardness (Model GYZJ935) | 35 |
| Flexural strength, N/mm² | 148 |
| Flexural modulus, KN/mm² | 2.94 |
| Water absorption (1 h @ 100°C), % wt gaom | 0.26 |

Epoxy Curing Agents and Modifiers

AMICURE® DBU-E Curing Agent

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