

Technical Data Sheet

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EPIKURE™ Curing Agent 3030

Product Description

EPIKURE™ Curing Agent 3030 is a very low viscosity amidoamine, medium imidazoline content epoxy curing agent based on tall oil fatty acid and polyamines. It is moderately fast setting and exhibits excellent epoxy resin compatibility in systems “as is” or with co-curing agents such as EPIKURE Curing Agent 3381.

Application Areas/Suggested Uses

- High solids coatings
- Floorings
- Castings
- Concrete repair
- Metal and plastic adhesives
- Electrical potting
- Conformal coatings

Benefits

- Excellent epoxy resin compatibility
- Good corrosion resistance
- Low viscosity
- Moderate pot life
- High filler loading
- Excellent wetting characteristics

Sales Specification

Property	Units	Value	Test Method/Standard
Amine value	g/eq	400 - 425	ASTM D2896
Viscosity at 25°C	cP	300 - 600	ASTM D2196
Color	Gardner	≤9	ASTM D1544

Typical Properties

Property	Units	Value	Test Method/Standard
Equivalent weight, approx.		95	
Pounds/gallon @ 25 °C	lbs/gal	7.9	ASTM D1475
Appearance		Clear and free of foreign particles	
Mix ratio, EPON™ Resin 828	pbw	40 - 60	

Performance PropertiesTable 1 / **Epoxy Systems Cured with EPIKURE™ Curing Agent 3030**

	<u>Method</u>	<u>Units</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>
EPON™ Resin 828		pbw	100			100
EPON Resin 813		pbw		100	100	
EPIKURE Curing Agent 3030		pbw	50	50	40	60

Handling Properties @ 25°C

Initial viscosity	cP	4,100	720	4,300	3,500
Pot life, 100 gram mass	minutes	125	193	159	104

Cured State Properties ¹

HDT	ASTM D648	°C	54	38	57	51
Tensile strength	ASTM D638	psi	7,667	4,165	8,421	6,607
Tensile elongation at break		%	5.5	11.3	4.5	8.7
Flexural strength	ASTM D790	psi	12,465	8,341	13,709	11,601
Initial flexural modulus, 10 ⁶		psi	0.36	0.25	0.39	0.34
Hardness	Shore D		81	78	82	80

Chemical Resistance ²

Water	%	0.19	0.27	0.16	0.20
5% acetic acid	%	0.74	1.48	0.40	1.53
5% sodium hydroxide	%	0.18	0.24	0.15	0.20
50% xylene / 50% isopropanol	%	2.55	-0.53	1.24	5.30

¹ Determined on 1/8-inch thick test specimens cured 24 hrs at 25 °C followed by 2 hrs at 100 °C.

² Percent weight gain after immersion for 24 hrs at 25 °C.

Safety, Storage & Handling

Please refer to the MSDS for the most current Safety and Handling information.

Please refer to the Hexion web site for Shelf Life and recommended Storage information.

EPIKURE Curing Agent 3030 should be kept in closed containers in a cool, dry place. Product will absorb moisture and carbon dioxide which may affect viscosity or create foaming when reacted with epoxy resins.

Exposure to these materials should be minimized and avoided, if feasible, through the observance of proper precautions, use of appropriate engineering controls and proper personal protective clothing and equipment, and adherence to proper handling procedures. **None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheet (MSDS) for these and all other products being used are understood by all persons who will work with them.** Questions and requests for information on Hexion Specialty Chemicals, Inc. ("Hexion") products should be directed to your Hexion sales representative, or the nearest Hexion sales office. Information and MSDSs on non-Hexion products should be obtained from the respective manufacturer.

Packaging

Available in bulk and drum quantities.

Contact Information

For product prices, availability, or order placement, call our toll-free customer service number at: 1-877-859-2800

For literature and technical assistance, visit our website at: www.hexion.com

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