

Technical Data Sheet

EPIKURE™ Curing Agent 3090

Product Description

EPIKURE™ Curing Agent 3090 is a moderate-viscosity, modified amidoamine adduct that is blush-resistant and features a 1-to-1 by weight/mix/ratio with standard liquid epoxy resins. Suitable curing at or below room temperature can be achieved. Good adhesion to damp or underwater substrates, including including concrete and steel, is possible.

Application Areas/Suggested Uses

- Old to new concrete primers
- Patching compound for concrete containing damp or rusted steel
- Marine coatings which cure underwater or on damp substrates
- Mortars and grouts which cure at low temperatures
- Blush-resistant adhesives for metals and many plastics
- High-solids concrete primers with excellent penetration

Benefits

- High corrosion resistance
- Good blush- and water-resistant
- Strong adhesion to cool or damp substrates
- One-to-one mix ratio by weight
- Positive low-temperature, thin-film cures
- High solids

Sales Specifications

Property	Value	Unit	Test Method
Amine Value	230 - 260	g/eq	ASTMD2896
Color	10 max	Gardner	ASTMD1544
Viscosity at 25°C	3000 - 6000	cP	ASTMD2196

Typical Properties

Property	Value	Unit	Test Method
Equivalent Weight Approx.	190		
Pounds/Gallon @ 25°C	8.2	lbs/gal	ASTMD1475
Solids	90	%	
Solvent	40 - 60	eq/100g	

Performance Properties

Table 1 / Epoxy Systems Cured with EPIKURE Curing Agent 3090

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	<u>Method</u>	<u>Units</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>
EPON™ Resin 828		pbw	100			
EPON Resin 813		pbw		100		
EPON Resin 815		pbw			100	
EPON Resin 8132		pbw				100
EPIKURE Curing Agent 3090		pbw	101	102	103	95

Handling Properties @ 25°C						
Resin Viscosity	ASTM D2196	cP	13,000	600	600	600
Mixed system Viscosity	ASTM D2196	cP	5,100	1,775	1,790	1,670
Gel time, 100 gram mass		min.	111	171	173	192

Chemical Resistance ¹

Water						
24 hours		%	0.24	0.25	0.32	0.26
7 days		%	0.71	0.68	0.82	0.69
5% acetic acid						
24 hours		%	6.19	9.34	9.56	8.44
7 days		%	17.74	27.70	27.84	23.73
50% xylene / 50% isopropanol						
24 hours			2	2	2	2

¹ Percent weight gain of 76mm x 6.4m specimens after immersion at 25°C.

² Disintegrated

General Information

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Proprietary modified polyamidoamine adduct, 90% solids in ethanol.

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 3090 should be kept in tightly closed containers in a cool, dry place. As with most amine based curing agents, this product will absorb moisture and carbon dioxide which may affect viscosity or create foaming when reacted with epoxy resins. Although stable at room temperature in an unopened container, this material will become darker in color with exposure to the atmosphere.

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 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, please contact customer service:

www.hexion.com/Contacts/

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