

## Technical Data Sheet

Issued September 2009

### EPIKURE™ Curing Agent 3388

#### Product Description

EPIKURE Curing Agent 3388 is a low viscosity, low color modified cycloaliphatic amine epoxy curing agent. Systems formulated with EPIKURE Curing Agent 3388 exhibit excellent corrosion and chemical resistance, as well as good color stability. It is ideally suited for Industrial Maintenance Coatings and Civil Engineering applications, including polymer flooring, secondary containment, caulks, grouts and mortars.

#### Application Areas/Suggested Uses

- Self Leveling Flooring
- Industrial Floor Coatings
- Tank linings – secondary containment
- Mineral castings
- Patching compounds
- Concrete sealers and primers

#### Benefits

- Low Viscosity
- Low Color
- Good Color Stability
- Good amine blush resistance
- Excellent corrosion and chemical resistance

#### Sales Specification

Property	Units	Value	Test Method/Standard
Amine value	mg KOH/g	260 - 285	ASTM D2896
Viscosity @ 25°C	cP	375 - 475	ASTM D2196
Color	Gardner	1 max.	ASTM D1544

#### Typical Properties

Property	Units	Value	Test Method/Standard
Equivalent weight	approx	113	
Density @ 25 °C	lbs/gal	8.6	ASTM D1475
Flash point	°C	100	ASTM D3278
Appearance		Clear and free of foreign particles	
Mix ratio			
EEW 190 epoxy	phr	60	

## Processing/How to use

### General Information

EPIKURE Curing Agent 3388 is an effective curative for most types of epoxy resins. It is compatible with either reactive diluent modified resins or with standard liquid epoxy resins. It has a convenient 3:2 mix ratio by volume when used with EPON Resin 828. Table 1 lists the cured state and handling properties for a typical system cured with EPIKURE Curing Agent 3388. EPIKURE Curing Agent 3388 is compatible with and can be used in combination with most aliphatic and cycloaliphatic amine curing agents to modify handling characteristics or cured state properties.

### Performance Properties

Table 1 / Epon Resin 828 cured with EPIKURE Curing Agent 3388

	Method	Units	A
EPON™ Resin 828		pbw	100
EPIKURE Curing Agent 3388		pbw	60
<b>Handling Properties</b>			
Gel Time @ 25°C, 100 gram mass		min.	47
Mixed Viscosity @ 25°C		cP	1800
Thin Film Dry Time @25°C			
Dry To Touch		hours	3.0
Cotton Free		hours	5.0
Through Dry		hours	7.7
Peak Exotherm (100 g mass @25°C)			
Temperature		°C	128
Time		min.	60
<b>Cured State Properties</b>			
Cure Schedule	7 days @ 25°C (77°F)		
Glass Transition Temperature (Tg)		°C	45.8
Heat Deflection Temperature	ASTM 648	°C	44.3
Tensile Strength	ASTM D638	psi	7,169
Tensile Modulus		ksi	416
Tensile Elongation		%	6.0
Flexural Strength	ASTM D790	psi	12,200
Flexural Modulus		ksi	451
Hardness	ASTM D2240	Durometer D	85
<b>Chemical Resistance*</b>			
Water		%	0.52
10% acetic acid		%	2.30
Methyl Ethyl Ketone		%	destroyed

\* Percent weight gain after immersion for 3 days @ 25°C – specimen size 1/8" x 1" x 3".

## **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.

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, visit the [Contact Us](#) section of our web site

For literature and technical assistance, visit our website at: [www.hexion.com/epoxy](http://www.hexion.com/epoxy)

## **Form Number**

EPIKURE Curing Agent 3388

## **Summary** (internal web search engine & TDS listing)

Low viscosity for this class of curatives. Applications include adhesives and extending pot life of highly reactive amines.

## **Metadata** (external web search engine, key words)

Keywords: EPIKURE,Curing Agent,3388,Hexion,EPI-CURE

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