

## Technical Data Sheet

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### EPIKURE™ Curing Agent 3155

#### Product Description

EPIKURE Curing Agent 3155 is a low viscosity, modified polyamide epoxy curing agent based on dimerized fatty acid and polyamines. The low viscosity of EPIKURE Curing Agent 3155 allows formulation of products with high levels of pigmentation and use of little or no solvent, depending on end use application. It is well-suited for use in higher solids coating formulations where low volatile organic content (VOC) compliance is required.

#### Application Areas/Suggested Uses

- High solids, VOC compliant industrial maintenance coating
- Maintenance mastic coatings
- Metal and plastic adhesives
- High build marine primers and topcoats

#### Benefits

- Good corrosion resistance
- Good flexibility
- Superior epoxy resin compatibility
- Long pot life
- Good blush resistance
- Good chemical resistance

#### Sales Specification

Property	Units	Value	Test Method/Standard
Amine value	mg/g	200-220	ASTM D2896
Viscosity at 25°C	cP	3,000-6,000	ASTM D2196
Color	Gardner	9	ASTM D1544

#### Typical Properties

Property	Units	Value	Test Method/Standard
Equivalent weight	AHEW	133	

Density @ 20 °C	lbs/gal	8.2	
Flash point	°F	>230	ASTM D3278

## Performance Properties

Table 1 / Properties of epoxy resins in combination with EPIKURE Curing Agent 3155

<b>Composition</b>	<b>Method</b>	<b>Units</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
EPON™ Resin 828			100	–	–	–
EPON Resin 813			–	100	–	–
EPON Resin 815C			–	–	100	–
EPON Resin 8132			–	–	–	100
EPIKURE Curing Agent 3155			70	71	72	67

## Handling Properties @ 25°C

Viscosity, Resin		cP	13,000	600	600	600
Viscosity, System		cp	7875	1860	1955	2120
Gel Time, 100 gram mass		min.	82	275	248	284

## Cured State Properties <sup>1</sup>

Heat Deflection Temperature	ASTM D648	°C	42	<25	<25	<25
Tensile Strength	ASTM D638	psi	6,900	1,500	1,700	1,075
Tensile Elongation		%	9.0	68	54	51
Tensile Modulus		ksi	330	16	15	5
Flexural Strength	ASTM D790	psi	10,260	154	251	83
Flexural Modulus		ksi	320	10	10	5
Compressive Strength	ASTM D695	psi	9,650	16,600	18,800	17,500
Compressive Modulus		psi	0.32	0.02	0.03	0.007
Hardness, heat-cured, 2 hrs @ 100 °C	ASTM D2240	Durometer D	79	72	69	62

<sup>1</sup> Cure Schedule — 1 day at RT + 2 hrs at 100 °C.

Table 2/ Chemical resistance properties of epoxy resins in combination with EPIKURE Curing Agent 3155<sup>1</sup>

<b>Chemical resistance properties<sup>1, 2</sup></b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
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Water

After 24 hours	0.26	0.21	0.24	0.22
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After 7 days	0.78	0.52	0.64	0.49
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5% Acetic acid

After 24 hours	0.86	0.90	1.13	0.93
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After 7 days	2.46	2.33	2.89	2.40
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50% xylene / 50% isopropanol

After 24 hours	5.20	–	–	–
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After 7 days	17.0	–	–	–
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<sup>1</sup> Cure Schedule — 1 day at RT + 2 hrs at 100 °C.

<sup>2</sup> Percent weight gain of immersed 3" x 1" x 0.125" specimens at 23 °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.

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**Packaging**

Available in bulk and drum quantities.

**Contact Information**

For product prices, availability, or order placement, please contact customer service:

[www.hexion.com/Contacts/](http://www.hexion.com/Contacts/)

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

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