Technical Data Sheet

EPIKURE™ Curing Agent 3380

Product Description

EPIKURE™ Curing Agent 3380 is a modified cycloaliphatic amine, very low viscosity, light colored epoxy curing agent. Systems formulated with EPIKURE Curing Agent 3380 exhibit excellent corrosion and chemical resistance and good color stability. It is ideally suited for architectural and maintenance coatings.

Application Areas/Suggested Uses

- Solvent-free coatings
- High solids maintenance primers
- Pastel colored architectural coatings
- Pipe and tank linings

Benefits

- Excellent chemical and corrosion resistance
- Excellent gloss and color stability
- Good flexibility
- Low mixed viscosity

Sales Specifications

Property	Value	Unit	Test Method
Amine Value	260 - 280	mg/g	ASTM D2896
Color	1	Gardner	ASTM D1544
Viscosity at 25°C	200 - 400	cP	ASTM D2196

Typical Properties

Property	Value	Unit	Test Method
Appearance	Clear and free of foreign particles		
Density @ 25°C	8.5	lbs/gal	ASTM D1475
Equivalent Weight Approx.	114		
Flash Point	>100	°C	ASTM D3278
Mix Ratio EPON™ Resin 828	57 - 63	PHR	

Performance Properties

Table 1 / Properties of Systems Cured with EPIKURE Curing Agent 3380					
Composition	Method	Units	A	B	C
EPON™ Resin 828		pbw	100	—	—
EPON Resin 813		pbw	—	100	—
EPON Resin 8132		pbw	—	—	100
EPIKURE Curing Agent 3380		pbw	60	60	55
Handling Properties @ 25°C					
Viscosity, Initial		cP	2,320	640	640
Pot life, 100 gram mass		min	34	51	60
Cured State Properties [1]					
Heat Deflection Temperature	ASTM D648	°C	57	32	35
Tensile Strength	ASTM D638	psi	7,365	4,614	3,243
Tensile Elongation at break		%	11.6	18.0	26.9
Flexural Strength	ASTM D790	psi	12,211	7,069	5,315
Flexural Modulus, Initial		ksi	410	250	190
Hardness		Shore D	81	78	72
Chemical Resistance[2]					
Water absorption		%	0.32	0.32	0.30
5% Acetic Acid		%	0.40	0.40	0.39
5% Sodium hydroxide		%	0.29	0.29	0.27
50% Xylene/50% Isopropanol		%	- 0.04	- 0.04	764

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

[2] Percent weight gain after immersion for 24 hours 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.

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 literature and technical assistance, visit our website atwww.hexion.com