

# Technical Data Sheet

## EPIKURE™ Curing Agent 6870-W-53

### Product Description

EPIKURE Curing Agent 6870-W-53 is a 53% solids, non-ionic aqueous dispersion of a modified polyamine adduct curing agent. This high molecular weight curing agent contains no solvents and is designed to provide the high performance of traditional epoxy coatings in low VOC<sup>1</sup>, non-HAPS<sup>2</sup> waterborne epoxy coatings. Although EPIKURE Curing Agent 6870-W-53 exhibits good compatibility with other epoxy resin dispersions, it is designed for use with

EPI-REZ™ Resin 6520-WH-53.

<sup>1</sup> VOC is the acronym for volatile organic compound, as defined by the U.S. 40CFR51.100 (s).

<sup>2</sup> HAP is the acronym for hazardous air pollutant, as defined by the U.S. Clean Air Act Amendments of 1990.

### Application Areas/Suggested Uses

- Adhesives
- Laminating binders
- Electrical encapsulants
- Grouts
- Floor topping and repair compositions

### Benefits

- Low odor
- Solvent free product as supplied
- Mechanical stability

When mixed with EPI-REZ RESIN 6520-WH-53

- Very fast dry and recoat times
- No induction time
- Visible end of pot life
- Very good gloss and aesthetics
- Very good corrosion and water resistance
- An improved balance of physical properties over a range of stoichiometry

### Sales Specifications

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EPIKURE Curing Agent 6870-W-53

<http://hexioninternet.azurewebsites.net/en-US/product/epikure-curing-agent-6870-w-53>

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Property	Value	Unit	Test Method
Amine Value	235 - 265	mg/g	ASTM D2896
Hegman Grind Fineness	7	Hegman	ASTM D-1210
Solids	51 - 54	% m/m	ASTM D1259
Viscosity at 25°C	1000 - 11000	cP	ASTM D2196

## Typical Properties

Property	Value	Unit
Amine Eq. Wt Based on Solids	220 - 240	
Appearance	Milky white	
Density Solids Basis Theoretical	9.9	lbs/gal
Density Solution Basis	9.1	lbs/gal

## Performance Properties

Figure 1 / Temperature-Viscosity Profile for EPIKURE Curing Agent 6870-W-53 (Brookfield, RVT, #5 spindle @ 20 RPM)



## General Information

The preferred resin choice for optimum performance over a wide range of stoichiometries is EPI-REZ Resin 6520-WH-53. This versatile binder system (6520-WH-53/6870-W-53) allows clear coats, enamels and primers to be formulated with volumetric mix ratios from 4:1 to 1:1. EPIKURE Curing Agent 6870-W-53 is also compatible with many other waterborne epoxy resin dispersions and additives.

## 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.

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## 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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