

# Technical Data Sheet

## EPON™ Resin 834-X-90

### Product Description

EPON™ Resin 834-X-90 is a 90% solids solution. Systems using EPON Resin 834-X-90 can be formulated to have excellent chemical and corrosion resistance. This resin can be used in formulating various room temperature curing industrial maintenance coatings including clears, primers, masonry surfacers, and gloss and semigloss enamels. It is especially useful in high solids and tar-type coatings.

### Benefits

- Well-suited for blending with various tars
- Easy-to-handle solution
- Can be used to produce 10 to 15 mil thick films with excellent adhesion

### Sales Specifications

Property	Value	Unit	Test Method
Color	3 max.	Gardner	ASTM D1544
Solids	89 - 91	% wt.	SRC 09Q16
Viscosity at 25°C	Z4 – Z8	Gardner	ASTM D1545
Weight per Epoxide	230 - 280	g/eq	ASTM D1652

<sup>1</sup> ASTM D1545 (Gardner-Holdt - Bubble Time Method), determined on resin solution as supplied.

### Typical Properties

Property	Value	Unit	Test Method
Density at 25°C, Nonvolatiles, Calculated	9.85	lb/gal	
Density, Solution at 25°C	9.5	lb/gal	ASTM D1475
Flash Point, Setofflash	84	°F	ASTM D3278
Solvent	Xylene		

### Processing/How to use

EPON Resin 834-X-90

<https://www.hexion.com/en-US/product/epon-resin-834-x-90>

Generated: May 20, 2019

Issue Date:

Revision: 9/1/2005 12:00:00 AM

® and ™ Licensed trademarks of Hexion Inc.

The information provided herein was believed by Hexion Inc. ("Hexion") to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by Hexion are subject to Hexion's terms and conditions of sale. **HEXION MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY HEXION**, except that the product shall conform to Hexion's specifications. Nothing contained herein constitutes an offer for the sale of any product.

## General Information

A wide variety of curing agents can be used with EPON Resin 834-X-90, including aliphatic amines, amine adducts, tertiary amines, polyamidoamines and polyamido-amine adducts. EPON Resin 834-X-90 is amenable to high solids formulations due to low molecular weight and low viscosity and its characteristic film forming ability. It is especially useful in coal tar and extended resin systems.

Typical of many epoxy resins, EPON Resin 834-X-90 is initially incompatible with many of the curing agents used. As the chemical reaction between the two proceeds, compatibility develops. Use of the system too soon after mixing can result in "blushing" or other film defects. To prevent this, an induction period is required.

## 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 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)

---

EPON Resin 834-X-90  
<https://www.hexion.com/en-US/product/epon-resin-834-x-90>

Generated: May 20, 2019  
Issue Date:  
Revision: 9/1/2005 12:00:00 AM

® and ™ Licensed trademarks of Hexion Inc.

The information provided herein was believed by Hexion Inc. ("Hexion") to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by Hexion are subject to Hexion's terms and conditions of sale. **HEXION MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY HEXION**, except that the product shall conform to Hexion's specifications. Nothing contained herein constitutes an offer for the sale of any product.