

# Technical Data Sheet

## EPON™ Resin 1001-UY-70

### Product Description

EPON™ Resin 1001-UY-70 is a 70 percent solids solution of an EPON Resin 1001F type epoxy resin in aromatic solvent 100 and 2-propoxyethanol. Systems using EPON 1001-UY-70 can be formulated to have excellent chemical resistance, corrosion resistance, and low color. This resin is used in formulating various room temperature curing industrial maintenance coatings including clears, primers, masonry surfacers, and gloss and semigloss enamels. The base resin is also available in other solvent lineups.

### Sales Specifications

Property	Value	Unit
Viscosity at 25°C	Z2 – Z4	Gardner

### Typical Properties

Property	Value	Unit	Test Method
Color	3 max	Gardner	ASTMD1544
Density at 25°C, Solution	9.0	lb/gal	ASTMD1475
Density at 25°C, Nonvolatiles, Calculated	10.0	lb/gal	
Nonvolatiles	69 - 71	%	
Solvent	Aromatic solvent 100 /2-Propoxyethanol		
Weight per Epoxide Based on Nonvolatiles	450 - 500	g/eq	ASTMD1652

### Processing/How to use

#### General Information

A wide variety of curing agents can be used with EPON 1001-UY-70, including aliphatic amines, amine adducts, tertiary amines, polyamidoamines and polyamidoamine adducts. More complete information on the use of some of these curing agents can be found in the various product bulletins describing specific curing agents.

Typical of epoxy resins, EPON 1001-UY-70 may be 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.

Alcohols and glycol ethers have a tendency to react with epoxide groups under certain conditions. As such, the weight per epoxide (WPE) and solution viscosity of this product will increase with time. Use oldest lots first and maintain modest inventories.

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.

EPON Resin 1001-UY-70

<https://hexioninternet-hexioninternet-slave.azurewebsites.net/en-US/product/epon-resin-1001-uy-70>

Generated: October 22, 2021

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.

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 1001-UY-70

<https://hexioninternet-hexioninternet-slave.azurewebsites.net/en-US/product/epon-resin-1001-uy-70>

Generated: October 22, 2021

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.