

Technical Data Sheet

EPON™ Resin 874-CX-90

Product Description

EPON™ Resin 874 is a Bisphenol-A based epoxy resin that has been modified to improve flexibility and to reduce solution viscosity. EPON Resin 874-CX-90 is supplied at 90% weight solids in a 1:1 w/w blend of methyl isobutyl ketone (MIBK) and xylene(s). In coatings applications, EPON Resin 874-CX-90 outperforms standard liquid epoxy resin grades (e.g., EPON Resin 828) offering better flexibility and faster dry times while providing comparable performance to solid epoxy resin grades like EPON Resin 1001F.

EPON Resin 874-CX-90 can be formulated into VOC-compliant, high solids coatings that offer performance comparable to standard epoxy-polyamide systems. A wide variety of curing agents can be used with EPON Resin 874-CX-90 including low viscosity polyamidoamines, cycloaliphatic amines, and amine adducts.

Application Areas/Suggested Uses

Low VOC Coatings for:

- Corrosion-resistant primers and topcoats for marine applications
- Industrial maintenance coatings for primers and topcoats
- High solids masonry and concrete coatings

Benefits

- Improved flexibility, faster dry times and longer pot life than standard liquid epoxy resins
- Equivalent impact resistance, flexibility, corrosion- and immersion-resistance compared to standard epoxy/polyamide coatings
- Easily handled solution that is readily thinned or reduced with other organic solvents (e.g., propylene glycol methyl ether, Aromatic 100, methyl n-amyl ketone).
- Crystal clear solution requiring no additional filtration.

Sales Specifications

Property	Value	Unit	Test Method
Color	6 max.		ASTM D1544
Solids	89 - 91	% wt.	SRC 09Q16
Weight per Epoxide	245 - 275	g/eq	ASTM D1652

Typical Properties

EPON Resin 874-CX-90

<https://www.hexion.com/en-US/product/epon-resin-874-cx-90>

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Property	Value	Unit	Test Method
Brookfield Viscosity at 25°C	1000 - 3000	cP	ASTM D2196
Density at 25°C	9.15	lb/gal	ASTM D1475
Flash Point, Setflash	61	°F	ASTM D3278
Gardner Viscosity at 25°C	X – Z1	cP	ASTM D1545

Processing/How to use

General Information

Additional technical information such as starting point formulations, fact sheets and technical papers may also be available for reference at www.hexion.com.

An excellent curing agent choice for balanced performance is EPIKURE™ Curing Agent 3175. This versatile binder system, EPON Resin 874-CX-90 with EPIKURE Curing Agent 3175, allows clear coats, enamels and primers to be formulated into high solids coatings. In addition, EPON Resin 874-CX-90 is compatible with a wide variety of other curing agent types (e.g., low viscosity polyamidoamines, cycloaliphatic amines and amine adducts).

Safety, Storage & Handling

Please refer to the MSDS for 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/

For literature and technical assistance, visit our website at: www.hexion.com

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