

Technical Data Sheet

EPON™ Resin 874-G-90

Product Description

EPON™ Resin 874-G-90 is a Bisphenol-A based epoxy resin that has been modified to improve flexibility and to reduce solution viscosity. EPON Resin 874-G-90 is supplied at 90% weight solids in normal-butyl acetate solvent (non-HAPS). In coatings applications, EPON Resin 874-G-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-G-90 can be formulated into non-HAPs coatings (<250 g/l VOC) that offer performance equivalent to standard epoxy-polyamide systems. A wide variety of curing agents can be used with EPON 874-G-90 including low viscosity polyamidoamines (e.g. EPIKURE™ Curing Agent 3175), cycloaliphatic amines, and amine adducts.

Application Areas/Suggested Uses

- 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).

Sales Specifications

Property	Value	Unit	Test Method
Solids	89.0 - 91.0	% wt.	SRC 09Q16
Color	6 max	Gardner	ASTMD1544
Viscosity, Brookfield @25°C	1000 - 5000	cP	ASTMD2196
Epoxide Equivalent Weight	245 - 275	g/eq	ASTMD1652

Typical Properties

Property	Value	Unit	Test Method
Density @25°C	8.93	lb/gal	ASTMD1475
Flash Point Setflash	81	°F	ASTMD3278

Processing/How to use

General Information

A starting point formulation based on EPON Resin 874-G-90 with EPIKURE Curing Agent 3175 is available that offers formulators a high solids coating with <250 g/L VOC and low HAPS-content. The performance data of this DTM (direct to metal) coating is provided in the starting formulation.

Safety, Storage & Handling

EPON™ Resin 874-G-90

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

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Please refer to the SDS for the most current Safety and Handling information.

Please refer to the Hexion Inc. 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 Safety Data Sheet (SDS) 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 Inc") products should be directed to your Hexion sales representative, or the nearest Hexion sales office. Information and SDSs 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, visit the "Contact Us" section of our website. For literature and technical assistance, visit our website at: www.Hexion.com/epoxy