

# Technical Data Sheet

## EPON™ LY™ Resin 1810

### Product Description

#### Modified Aliphatic Epoxy Resin for Lower Yellowing (LY) Applications

##### (INFINIUM™ Epoxy System)

EPON LY™ Resin 1810 is a solvent-free, modified aliphatic epoxy resin designed for lower yellowing, faster cure coatings for concrete protection. It is recommended to be used with EPIKURE LY™ Curing Agent 3801. This combination of epoxy resin and curing agent are designated as the INFINIUM™ Lower Yellowing Epoxy System.

### Application Areas/Suggested Uses

- Industrial Floor Coatings
- Higher Gloss Floor Coatings
- Bar and Countertop Coatings

### Features

- Lower color
- Lower yellowing
- Faster return to service

### Benefits

- Improved worker safety (Non-isocyanate cure system)
- Improved color retention
- Superior aesthetics

### Sales Specifications

Property	Value	Unit	Test Method
Epoxide Equivalent Weight	210 - 240	g/eq	ASTMD1652
Viscosity at 25°C, Brookfield, spindle #27 at 100 RPM	1000 - 3000	cP	ASTMD2196
Color	< 150	Pt-Co	ASTMD1209

### Typical Properties

Property	Value	Unit	Test Method
Density at 25°C, as supplied	9.0	lb/gal	ASTMD1475
Mix Viscosity with EPIKURE LY™ Curing Agent 3801	~ 1500	cP	ASTMD2196

## Handling Properties

	Method	Units	Value
EPON LY™ Resin 1810		pbw	100
EPIKURE LY™ Curing Agent 3801		pbw	22
Viscosity at 25°C	ASTM D2196	cP	~1500
Gel Time, 100g mass	Shyodu	minutes	60

## Performance Properties

	Method	Units	A	B
EPON LY™ Resin 1810		pbw	100	---
EPONEX™ Resin 1510		pbw	---	100
EPIKURE LY™ Curing Agent 3801		pbw	22	22
Shore D (24hr)	ASTM D2240		80	70
Dry Times (4 mil DFT)	ASTM D5895B	hr.	Touch Dry – 2 Cotton-Free – 5.5 Dry-Through – 9.5	Touch Dry – 6 Cotton-Free – 12 Dry-Through - >24

## Safety, Storage & Handling

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.

EPON LY™ Resin 1810 should be stored in tightly sealed glass, stainless steel, polyethylene or phenolic line containers at normal room temperatures. Storage in unlined steel containers should be avoided. Do not allow the product to exceed 120°F during storage or processing. This product is heat, UV and shear sensitive. Avoid exposure to direct sunlight or other strong UV source. Use only diaphragm type pumps for transferring.

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](http://www.Hexion.com/epoxy)