

# EPALLOY<sup>®</sup> 5000 Hydrogenated Bisphenol-A Epoxy Resin

## Product Description

EPALLOY<sup>®</sup> 5000 resin is the diepoxide of the hydrogenated bisphenol A. Due to its saturated ring structure, this resin will find utility in applications requiring resistance to ultraviolet light exposure. Formulations based on standard DGEBA resins usually do not perform well in this environment. Curing agent selection should be done with great care to achieve optimum weathering resistance with EPALLOY<sup>®</sup> 5000 resin. Products with improved chalking resistance and gloss retention can be formulated.

EPALLOY<sup>®</sup> 5000 resin exhibits a significantly lower viscosity than DGEBA. Higher filler loadings can, therefore, be achieved, resulting in cost reduction and reduced shrinkage. The adhesion and chemical resistance characteristics of EPALLOY<sup>®</sup> 5000 resin formulations are expected to be like those of standard DGEBA systems.

## Applications

- Tanks
- Concrete dikes
- Steel structures
- Rail cars
- Stereolithography & 3D Printing
- UV Cured Adhesives and Coating

## Typical Properties

Property	EPALLOY <sup>®</sup> 5000
Viscosity at 25°C, cP	1,300 – 2,500
Epoxide Equivalent Weight, g/eq	210 – 230
APHA Color, max	100
Residual Epichlorohydrin, max ppm	10
Hydrolyzable Chloride, max %	0.20
Weight per Gallon at 25°C, lb	9.0 ± 0.1
Flash Point, COC, °C (°F)	>115 (>240)

## Storage

**EPALLOY® 5000** resin should be stored in a dry place, in the sealed original containers, at temperatures between **+2°C and +40°C (+35.6°F and +104°F)**. Under these storage conditions, the product has a shelf life of **24 months** (from date of manufacture). The products should not be exposed to direct sunlight.

## Precautionary Statement

Huntsman Advanced Materials Americas LLC maintains up-to-date Safety Data Sheets (SDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest SDS to determine possible health hazards and appropriate precautions to implement prior to using this material.

### First Aid!

Refer to SDS as mentioned above.

**KEEP OUT OF REACH OF CHILDREN**

**FOR PROFESSIONAL AND INDUSTRIAL USE ONLY**

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