


Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division)
EPOTEC YDH 3000
Description

Epotec YDH 3000 is diglycidyl ether of hydrogenated bisphenol-A. Due to the cyclic rings of saturated bisphenol-A this resin is expected to give good resistance to ultraviolet light and weathering which is a limitation when it comes to standard bisphenol-A based epoxy resins. This also opens doors for cycloaliphatic epoxy resin epotec YDH 3000 for use in outdoor coating applications where it is expected to give better non-yellowing characteristics and chalking resistance. The choice of curing agent also plays an important role in getting better performing formulations.

Epotec YDH 3000 shows much lower viscosity than std. bisphenol-A based epoxy resins making it feasible to develop cost effective coating formulations with increased filler content.

Applications

- Coatings for outdoor application on metal, wood and concrete surface
- High solids coatings including baking finishes
- Modifier for industrial acrylic finishes

Specification

Appearance	Visual	Clear, colourless to light yellow liquid
Colour	ASTM D 1544-04	0.3 G max.
Epoxy Equivalent weight	ASTM D 1652-04	220 – 240 g/eq
Viscosity @25°C	ASTM D 2196-05	2,000 – 3,000 cP
Hydrolysable Chlorine	ASTM D 1726-03	0.1 % max.

Typical properties *

Epoxide Value	ASTM D 1652-04	4.16 – 4.55
Density @25°C	ASTM D 1475-98	1.14 g/ml
Water content	ASTM E 203-01	0.1 % max.
ECH content	TEC-AS-P-023	10 ppm max.
Flash point	ASTM D 93	115°C

* = Typical properties are indicated for information only

Packing

Epotec YDH 3000 is packed and delivered in steel drums, 220 kg per drum as a standard pack.
Other packs are available on request.

Storage

Epotec YDH 3000 resin should be stored in original tightly closed container, in dry and warm conditions to avoid crystallization. Under these conditions, it has a storage life of at least two years from the date of manufacturing. Epotec YDH 3000 may become hazy or crystallize upon long storage especially when exposed to low temperatures. The resin can be restored to its original condition by warming to 55-60°C while stirring.

Handling

Please refer to the MSDS of the product for more instructions on safe storage and handling of epotec YDH 3000.

Disclaimer

All recommendations for use of our products whether given by us in writing, verbally or to be implied from the results of tests carried out by us are based on the current state of our knowledge. Although, the information contained in this sheet is accurate, no liability can be accepted in respect of such information. We warrant only that our product will meet the designated specifications and make no other warranty either express or implied, including any warranty of merchantability or fitness for a particular purpose as the conditions of application are beyond our control.

For Additional Information, Please Contact:

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