



Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division)

EPOTEC YDH 184

Description

Epotec YDH 184 is diglycidyl ester of hexahydrophthalic anhydride. Due to the cyclic ring of hexahydrophthalic anhydride 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 184 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.

The viscosity of epotec YDH 184 is similar to reactive diluent modified bisphenol-A based liquid epoxy resin. This renders epotec YDH 184 to be formulated into low V.O.C. or even solvent free outdoor coatings. Epotec YDH 184 can also be cured with anhydride curing agents at high temperatures. Systems, such formulated, gives high glass transition temperature and are used in electrical applications.

Applications

- Coatings for outdoor application on metal, wood and concrete surface
- High solids coatings including baking finishes
- Potting / insulating compounds

Specification

Appearance	Visual	Clear, colourless to light yellow liquid
Colour	ASTM D 1544-04	0.5 G max.
Epoxy Equivalent weight	ASTM D 1652-04	165 – 177 g/eq
Viscosity* @25°C	ASTM D 2196-05	450 – 900 cP
Water content	ASTM E 203-01	0.1 % max.

* = Brookfield viscosity

Typical properties *

Epoxide Value	ASTM D 1652-04	5.65 – 6.06
Density @25°C	ASTM D 1475-98	1.20 g/ml
Flash point	ASTM D 93	> 150°C

* = Typical properties are indicated for information only

Packing Epotec YDH 184 is packed and delivered in steel drums, 220 kg per drum as a standard pack.
Other packs are available on request.

Storage Epotec YDH 184 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.

Handling Please refer to the MSDS of the product for more instructions on safe storage and handling of epotec YDH 184.

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.

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