


Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division)
EPOTEC YD 013
Description

Epotec YD 013 is a medium molecular weight solid epoxy resin designed for use in powder coatings. The relatively low viscosity at higher molecular weight of this resin in this category combined with good colour makes it ideal for use in powder coatings requiring higher storage stability with good flow and mechanical properties. This product is especially suitable for regions with hot climatic conditions due to its better anti-sintering characteristics.

Applications

- Hybrid powder coatings
- High gloss, good flow pure epoxy powder coatings

Specification

Appearance	Visual	Clear, colourless to light yellow flakes
Colour*	ASTM D 1544-04	0.5 max.
Epoxy Equivalent weight	ASTM D 1652-04	820 – 880 g/eq
Viscosity [#] @150°C	ASTM D 4287-00	3,600 – 5,000 cP
Softening point	ASTM D 6090-99	85 – 98 °C
Hydrolysable Chlorine	ASTM D 1726-03	0.1 % max.

* 40 % solids in Butyl Carbitol
Cone & Plate viscometer

Typical properties *

Epoxide Value	ASTM D 1652-04	1.13 – 1.22
Water content	ASTM E 203-01	0.5 % max.
Glass transition Temperature (T _g)	DIN 11357	55°C min.
Relative Density	ASTM D 1298	1.16 - 1.18 g/cc
Bulk density	ASTM D 1895	0.50-0.65 MT/m ³
Insolubles	TEC-AS-P-050	30 ppm max.

* = Typical properties are indicated for information only

Packing

Epotec YD 013 is packed and delivered in PE bags, 25 kg nett per bag as a standard pack.
Other packs are available on request.

Storage

Epotec YD 013 resin should be stored in normal ambient conditions, in closed container, at dry and cool place preferably below 35°C. Epotec YD 013 resin should not be exposed to moisture, sunlight or other heating media to avoid agglomeration. Under proper storage conditions, it has a storage life of at least two years from the date of manufacturing. **It is advised to take proper precaution while emptying bags of epotec YD 013 to avoid discharge of static electricity that might be present on the packing material surface. A good exhaust to avoid formation of a cloud of fines at discharge area is recommended.**

Handling

Please refer to the MSDS of the product for more instructions on safe storage and handling of epotec YD 013.

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:
Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division)
Mahatun Plaza Bldg., 16th Floor 888/167 Ploenchit Road, Lumpini, Bangkok 10330 Thailand.
Tel: (662) 2535031-3, Fax: (662) 2535030
Web Site: www.adityabirlachemicals.com, E-Mail: epoxymktg@adityabirla.com