


Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division)
EPOTEC YDF 171
Description

Epotec YDF 171 is general-purpose unmodified Diglycidyl ether of bisphenol-F. Although its viscosity is more than epotec YDF 170, the std. bis-F based liquid epoxy resin it is still much lower than std. bis-A liquid epoxy resins and offer advantage in terms of better chemical resistance & flexibility.

Epotec YDF 171 is compatible with all common epoxy resins in all ratios. A blend of epotec YDF 171 with bisphenol-A based liquid resin has better resistance to crystallization compared to unmodified base resins. Blending of epotec YDF 171 into std. bis-A based liquid epoxy resin brings down viscosity without affecting performance parameters unlike reactive diluent modified resin that affects mechanical, chemical and thermal resistance of the system. A combination of bis-A liquid epoxy, bis-F liquid epoxy and reactive diluent is possible and used in various applications.

Applications

- Solvent based, high solids and solvent free coatings
- Adhesives
- Civil engineering and construction industry
- Automotive coatings
- Marine and Industrial protective coatings
- Composites

Specification

Appearance	Visual	Viscous liquid
Colour	ASTM D 1544-04	1 G max.
Epoxy Equivalent Weight	ASTM D 1652-04	170 - 180 g/eq
Viscosity* 25 °C	ASTM D 2196-05	5,000 - 7,000 cP
Hydrolysable Chlorine	ASTM D 1726-03	0.1 % max.

*Brookfield viscosity

Typical properties *

Epoxide Value	ASTM D 1652-04	5.55 – 5.88
Density @25°C	ASTM D 1475-98	1.18 g/ml
Water content	ASTM E 203-01	0.1 % max.
ECH content	TEC-AS-P-023	10 ppm max.
Non-volatile content	ASTM D 1259-06	100 %

Flash point ASTM D 93 > 150°C

* = Typical properties are indicated for information only

Packing

Epotec YDF 171 is packed and delivered in steel drums, 220 kg per drum as a standard pack.
Other packs are available upon request.

Storage

Epotec YDF 171 resin should be stored in original tightly closed container, in dry and warm conditions. Under these conditions, it has a storage life of at least two years from the date of manufacturing. Epotec YDF 171 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. For handling or pumping the maximum temperature recommended is 80°C.

Handling

For more instructions on storage and handling of epotec YDF 171 please refer to the MSDS of the product.

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