


Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division)
EPOTEC YDFM 253
Description

Epotec YDFM 253 is a blend of diglycidyl ether of bisphenol-A liquid epoxy resin, diglycidyl ether of bisphenol-F liquid epoxy resin and monofunctional reactive diluent. The blend greatly improves the crystallization resistance of this material as against the individual bisphenol-A or bisphenol-F based liquid epoxy resins. The reactive diluent in the blend helps in reducing the viscosity of the product so that it can be suitably formulated into high solids or even solvent free coatings and floor toppings. The reactive diluent in the blend also lowers surface tension of the product and increases pot life as well as flexibility of the system. This translates into better surface wetting, longer working time and improved toughness.

Epotec YDFM 253 is compatible with all common epoxy resins in all ratios. All the common epoxy curing agents can be employed to cure epotec YDFM 253 based system.

Applications

- High solids and solvent free coatings
- Adhesives
- Solvent free self leveling flooring
- Other construction applications
- Marine and Industrial protective coatings

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	190 – 200 g/eq
Viscosity* 25 °C	ASTM D 2196-05	700 – 1,100 cP

*Brookfield viscosity

Typical properties *

Epoxide Value	ASTM D 1652-04	5.00 – 5.26
Density @25°C	ASTM D 1475-98	1.16 – 1.18 g/ml
Water content	ASTM E 203-01	0.1 % max.
Hydrolysable chlorine	ASTM D 1726-03	0.1 % 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 YDFM 253 is packed and delivered in steel drums, 220 kg per drum as a standard pack.
Other packs are available upon request.

Storage

Epotec YDFM 253 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 YDFM 253 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

For more instructions on storage and handling of epotec YDFM 253 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:

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