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

# EPOTEC YDFM 251

## Description

Epotec YDFM 251 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 also 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.

Epotec YDFM 251 is compatible with all common epoxy resins in all ratios. All the common epoxy curing agents can be employed to cure epotec YDFM 251 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 | 185 – 200 g/eq |
| Viscosity* 25 °C | ASTM D 2196-05 | 500 – 800 cP |

*Brookfield viscosity

## Typical properties *

| | | |
|---|---|---|
| Epoxide Value | ASTM D 1652-04 | 5.00 – 5.41 |
| 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 251 is packed and delivered in steel drums, 220 kg per drum as a standard pack.
Other packs are available upon request.

**Storage**

Epotec YDFM 251 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 251 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 55-60ºC while stirring.

**Handling**

For more instructions on storage and handling of epotec YDFM 251 please refer to the MSDS of the product.



**For Additional Information, Please Contact:**
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