


Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division)
EPOTEC YD 134
Description

Epotec YD 134 is an unmodified semi-solid epoxy resin based on Bisphenol-A. At normal room temperature of 25°C this resin has high viscosity & has no or very little flowability. This resin has molecular weight higher than standard liquid epoxy resin epotec YD 128. Due to its viscous, semi-solid nature this resin is used, normally with solvents or applied at elevated temperature to induce the flow, mainly in adhesives & protective coatings. It can also be used to modify other epoxy resins to impart or improve the toughness, flexibility, adhesion etc.

Various curing agents can be employed to cure epotec YD 134 epoxy resin. Although it can be cured at room temperature elevated temperature curing develops the full properties of the system.

Applications

- Adhesives
- Marine and Industrial protective coatings
- Solvent based coatings
- Coatings and systems for construction industry
- Encapsulation / insulation systems for electrical / electronic components
- Composites

Specification

| | | |
|-------------------------|-----------------|---|
| Appearance | Visual | Clear, light yellow semi-solid material |
| Colour | ASTM D 1544 -04 | 0.5 G max. |
| Epoxy Equivalent Weight | ASTM D 1652 -04 | 240 – 260 g/eq |
| Viscosity* @ 25 °C | ASTM D 1545-07 | R – U |

* Gardner Holdt (70% solids in butyl carbitol)

Typical properties *

| | | |
|----------------------|----------------|-------------|
| Epoxide Value | ASTM D 1652-04 | 3.84 – 4.17 |
| Density @25°C | ASTM D 1475-98 | 1.16 g/ml |
| Water content | ASTM E 203-01 | 0.5 % max. |
| ECH content | TEC-AS-P-023 | < 10 ppm |
| Non-volatile content | ASTM D 1259-06 | 100 % |
| Flash point | ASTM D 93 | > 150 °C |

* = Typical properties are indicated for information on

Packing

Epotec YD 134 is packed and delivered in open mouth steel drums, 220 kg per drum as a standard pack.

Storage

Epotec YD 134 resin should be stored in original tightly closed container. Under these conditions, it has a storage life of at least two years from the date of manufacturing. For handling or pumping the maximum temperature recommended is 80°C.

Handling

For more instructions on storage and handling of epotec YD 134 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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