


Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division)
EPOTEC TW 5001
Description

Epotec TW 5001 is an aqueous dispersion of liquid bisphenol A epoxy resin. The dispersion uses proprietary emulsifiers and is supplied at 60% solids in water. It has moderate viscosity containing no organic solvents and is completely water reducible.

Epotec TW 5001 contains internal emulsifier rather than external emulsifier. This built in emulsifier gives many advantages over externally emulsified products available on market in terms of improved stability, reduced water sensitivity and like.

Epotec TW 5001 can be formulated suitably into sizing for glass fiber manufacture which also improves further the adhesion and compatibility with the binder system used while making FR laminates. Epotec TW 5001 can also be used to make protective coatings by curing with appropriate curing agents.

Applications

- Fibre Sizing
- Protective coatings for steel
- Protective coatings for concrete
- Adhesives

Specification

Appearance	Visual	White / Milky emulsion
Epoxy Equivalent weight*	ASTM D 1652-04	195 - 220 g/eq
Viscosity**@25°C	ASTM D 2196-05	300 - 3,500 cP
Non-volatile content	ASTM D1259-06	59 – 61 %

* Based on solids

** Brookfield viscometer

Typical properties

Epoxy content	ASTM D 1652-04	4.54 - 5.13
Density @25 °C	ASTM D 1475-98	1.09 g/ml
Freeze thaw stability	---	> 5 cycles
Solvent	---	Water

Packing

Epotec TW 5001 is packed and delivered in plastic drums, 200 kg net per drum as a std. packing.
Other packing is available on request.

Storage

Epotec TW 5001 dispersions should be stored in their original tightly closed containers at temperatures between 5 to 35°C. **Do not freeze the product.** Do not leave the product uncovered for extended periods of time. When stored properly epotec TW 5001 has a shelf life of at least 6 months from the date of manufacture. After extended periods of storage some sedimentation may occur. In such case it is recommended to homogenize the emulsion by gentle agitation prior to use.

Handling

For more instructions on storage and handling of epotec TW 5001 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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