


Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division)
EPOTEC YD 017S
Description

Epotec YD 017S is a high molecular weight bisphenol-A based solid epoxy resin. It is mainly used to make single pack, baking type epoxy-amino, epoxy-phenolic coatings that are used in packaging industry. This product can also be used in the manufacturing of epoxy esters, to produce industrial protective coatings. Epotec YD 017S has lower viscosity than epotec YD 017 which benefits formulators in terms of increasing solid contents and achieving coatings with better flow.

The high hydroxyl content of epotec YD 017S can be used to prepare ambient, polyisocyanate curable, 2K system. Epotec YD 017S has higher softening point. This property imparts good hardness to the coating.

Applications

- Can coatings
- Coil coatings
- Linings for tubes and drums
- High performance primer
- Manufacturing of epoxy esters

Specification

Appearance	Visual	Clear, colourless to light yellow flakes
Colour*	ASTM D 1544-04	0.5 G max.
Epoxy Equivalent weight	ASTM D 1652-04	1,750 – 2,100 g/eq
Viscosity# @ 25°C	ASTM D 2196-05	1,290 – 2,270 cP
Viscosity* @ 25°C	ASTM D 1545-07	X – Z (G-H)
Softening point	ASTM D 6090-99	113 – 123 °C
Insolubles	TEC-AS-P-050	30 ppm max.

* 40 % solids in Butyl Carbitol

Brookfield viscometer

Typical properties †

Epoxide Value	ASTM D 1652-04	0.48 – 0.57
Water content	ASTM E 203-01	0.5 % max.
Relative Density	ASTM D 1298	1.18 g/cc
Bulk density	ASTM D 1895	0.50-0.65 MT/m ³

Hydroxyl value	---	ca. 3.56 eq/kg
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† = Typical properties are indicated for information only

Packing

Epotec YD 017S is packed and delivered in PE bags, 25 kg nett per bag as a standard pack.
Other packs are available on request.

Storage

Epotec YD 017S resin should be stored in normal ambient conditions, in closed container, at dry and cool place preferably below 35°C. Epotec YD 017S resin should not be exposed to moisture, sunlight or other heating media to avoid agglomeration. Under proper storage conditions, it has a storage life of at least two years from the date of manufacturing. **It is advised to take proper precaution while emptying bags of epotec YD 017S to avoid discharge of static electricity that might be present on the packing material surface. A good exhaust to avoid formation of a cloud of fines at discharge area is recommended.**

Handling

Please refer to the MSDS of the product for more instructions on safe storage and handling of epotec YD 017S.

Food contact Statement

When properly formulated and cured for food contact application, epotec YD 017S resin will comply with the U.S. Food, Drugs and Cosmetics Act as amended under Food Additive Regulation 21 CFR 175.300. This use is subject to good manufacturing practices and limitations specified in each regulation, which should be consulted for complete details.

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)**

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