



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

EPOTEC TH 7302**Description**

EPOTEC TH 7302 is a low viscosity modified cycloaliphatic amine epoxy curing agent. It gives high gloss surface, resistance to a variety of chemicals like acid, alkalies, hydrocarbons, water etc. It can be suitably formulated with epoxy resin for flooring and coating applications.

Applications

- Water proofing systems
- High solid coatings
- Decorative and self leveling floorings
- Chemical resistant mortars and linings

Advantages

- Very low color and color stability
- High gloss
- Low viscosity
- Good resistance to variety of chemicals
- Rapid build up of mechanical properties

Typical properties

Property	Test method	Unit	Specification
Appearance	Visual	-	Colorless to light yellow liquid
Color	ASTM-D-1544 (89) TEC-AS-P-006	Gardner	Max. 3.0
Amine value	TEC-AS-C-058	mgKOH/g	300 - 320
Viscosity* @ 25 °C	JIS-K-7233 (86)	cPs	280 - 420

* Brookfield viscosity

Typical application properties

Property	Test method	Unit	Specification	
			YD 128**	YD 510***
Mixing ratio	-	By Weight	100 : 50	100 : 45
Mixed viscosity* @ 25 °C	JIS-K-7233 (86)	cPs	2,500 - 3,000	1,500 - 2,000
Gel time (100 gram mix) @ 25 °C	Techne GT-3 Gelation timer	Minutes	25 - 30	30 - 45
Thin film set time @ 25 °C	-	Hours	6 - 7	6 - 8

*Brookfield viscosity.

**YD 128: Standard Epoxy resin with EEW = 190 g/eq.

***YD 510: Reactive diluent modified epoxy resin.

Typical performance properties*

Property	Test method	Unit	Specification	
			YD 128	YD 510
Glass transition temperature	ASTM-D-3418 (82)	°C	48 - 55	40 - 45
Tensile strength	ASTM-D-638 (86)	Kg/cm ²	450 - 560	380 - 490
Tensile elongation	ASTM-D-638 (86)	%	2 - 4	6 - 8
Flexural strength	ASTM-D-790 (86)	Kg/cm ²	845 - 1,050	630 - 770
Compressive strength @ yield	ASTM-D-695 (85)	Kg/cm ²	630 - 845	500 - 770
Hardness	ASTM-D-2240 (86)	Shore D	80 - 81	81 - 82

*Sample cured with standard Bisphenol-A epoxy resin YD 128, (EEW = 190 g/eq) and YD 510 @ 25°C (77°F) for 7 days.

Storage

Storage life is at least 12 months from the date of manufacture when stored in original sealed container. Store the material in good ventilated, dry and cool place. Store the material away from sources of heat, ignition and direct sunlight.

Handling

Please refer to MSDS for safe handling of EPOTEC TH 7302.

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.

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