



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

**EPOTEC TH 7901****Description**

EPOTEC TH 7901 is a modified cycloaliphatic amine curing agent designed to cure in presence of high humidity, low temperature and wet conditions. It can be suitably used with an unmodified, modified and solvent based epoxy resins.

**Applications**

- Solvent free and high solids coatings
- Chemical resistant floorings and mortars
- Self leveling decorative floorings
- Laminates

**Advantages**

- High reactivity
- Excellent adhesion to wet surfaces
- Good gloss and smooth finishes
- Good resistance to chemicals, water spotting and blush

**Typical properties**

Property	Test method	Unit	Specification
Appearance	Visual	-	Light yellow liquid
Color	ASTM-D-1544 (89) TEC-AS-P-006	Gardner	Max. 4.0
Amine value	TEC-AS-C-058	mgKOH/g	280 - 325
Viscosity* @ 25 °C	JIS-K-7233 (86)	cPs	100 - 300

\* Brookfield viscosity

**Typical application properties** - with standard Bisphenol A epoxy resin EPOTEC YD 128, EEW = 190 g/eq

Property	Test method	Unit	Specification
Mixing ratio	-	By Weight	100 : 55
Mixed viscosity* @ 25 °C	JIS-K-7233 (86)	cPs	1,200 - 1,800
Gel time (100 gram mix) @ 25 °C	Techne GT-3 Gelation timer	Minutes	23 - 27
Thin film set time @ 25 °C	-	Hours	5 - 8

**Typical performance properties\***

Property	Test method	Unit	Specification
Glass transition temperature	ASTM-D-3418 (82)	°C	Min 50
Tensile strength	ASTM-D-638 (86)	Kg/cm <sup>2</sup>	450 - 560
Tensile elongation	ASTM-D-638 (86)	%	3 - 4
Flexural strength	ASTM-D-790 (86)	Kg/cm <sup>2</sup>	700 - 850
Bond strength (mild steel to mild steel)	ASTM-D-638 (86)	Kg/cm <sup>2</sup>	90 - 105
Hardness	ASTM-D-2240 (86)	Shore D	78 - 82

\*Sample cured with standard Bisphenol-A epoxy resin EPOTEC YD 128, (EEW = 190 g/eq) at 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 7901.

**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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