



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

**EPOTEC TH 7905****Description**

EPOTEC TH 7905 is a mannish base curing hardener. It is mainly used for fast film set time, at low temperature and high humid curing conditions. It can also be used as an accelerator for other amine hardeners.

**Applications**

- Chemical resistant coatings
- Chemical resistant mortars
- Bonding old concrete to new concrete
- Bonding rebar to concrete
- Adhesives

**Advantages**

- Rapid cure at low temperature and in humid condition
- Very good resistance of various chemicals

**Typical properties**

Property	Test method	Unit	Specification
Appearance	Visual	-	Amber color liquid
Color	ASTM-D-1544 (89) TEC-AS-P-006	Gardner	Max. 5.0
Amine value	TEC-AS-C-058	mgKOH/g	350 - 390
Viscosity* @ 25 °C	JIS-K-7233 (86)	cPs	400 - 600

\* 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 : 40
Gel time (250 g mix) @ 25 °C	Techne GT-3 Gelation timer	Minutes	15 - 20
Thin film set time @ 25 °C	-	Hours	1 - 2

**Typical performance properties\***

Property	Test method	Unit	Specification
Glass transition temperature	ASTM-D-3418 (82)	°C(°F)	Min 50 (122)
Tensile strength	ASTM-D-638 (86)	Kg/cm <sup>2</sup>	600 - 700
Tensile elongation	ASTM-D-638 (86)	%	2 - 3
Flexural strength	ASTM-D-790 (86)	Kg/cm <sup>2</sup>	1,400 - 1,500
Compressive strength @ yield	ASTM-D-695 (85)	Kg/cm <sup>2</sup>	800 - 900
Hardness	ASTM-D-2240 (86)	Shore D	82 - 84

\*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 7905.

**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)**

Mahatun Plaza Bldg., 16<sup>th</sup> Floor 888/167 Ploenchit Road, Lumpini, Bangkok 10330 Thailand.

Tel: (662) 2535031-3, Fax: (662) 2535030

Web Site: [www.adityabirlachemicals.com](http://www.adityabirlachemicals.com), E-Mail: [epoxymktg@adityabirla.com](mailto:epoxymktg@adityabirla.com)