


Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division)
EPOTEC TH 7307 A
Description

EPOTEC TH 7307 A is a low viscosity, low color amine curing agent. When cured with standard liquid epoxy resins, it provide surfaces with high gloss and resistant to various chemicals.

Applications

- High solid / Low VOC coatings
- Clear lacquers for wood

Advantages

- Excellent color and color stability
- Good food chemical resistance
- Excellent resistance to amine blush
- Can cure at low temperature and in humid conditions
- Good abrasion resistance

Typical properties

Property	Test method	Unit	Specification
Appearance	Visual	-	Clear liquid
Color	ASTM-D-1544 (89) TEC-AS-P-006	Gardner	Max. 1.0
Amine value	TEC-AS-C-058	mgKOH/g	330 - 350
Viscosity* @ 25 °C	JIS-K-7233 (86)	cPs	35 - 80

* Brookfield viscosity

Typical application properties – with standard Bisphenol A epoxy resin EPOTEC YD 515, EEW = 200 g/eq

Property	Test method	Unit	Specification
Mixing ratio	-	By Weight	100 : 45
Gel time (150 gm mix) @ 25 °C	Techne GT-3 Gelation timer	Minutes	31 - 47
Thin film set time @ 25 °C	-	Hours	5.5 - 6.5

Typical performance properties*

Property	Test method	Unit	Specification
Glass transition temperature	ASTM-D-3418 (82)	°C	45 - 50
Tensile strength	ASTM-D-638 (86)	Kg/cm ²	500 - 600
Tensile elongation	ASTM-D-638 (86)	%	3.0 - 3.5
Flexural strength	ASTM-D-790 (86)	Kg/cm ²	750 - 850
Hardness	ASTM-D-2240 (86)	Shore D	75 - 78

*Sample cured with standard Bisphenol A epoxy resin EPOTEC YD 515, (EEW = 200 g/eq) @ 25°C (77°F) for 7 days.

Storage

Store away from excessive heat and humidity, preferably in the original containers kept tightly closes. Under these conditions and at normal temperature, the storage life should be at least on year.

Handing

Please refer to MSDS for safe handing of EPOTEC TH 7307 A.

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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