


Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division)
YD 520 / TH 7227
Description

EPOTEC YD 520 is a modified bisphenol A type epoxy resin with low viscosity and very low color marking it deal for use in clear top coat.

EPOTEC TH 227 is an ultra low viscosity modified aliphatic amine curing agent. The low viscosity and high reactivity of this hardener makes it suitable for deep penetration and quick setting coatings.

Applications

- Marble coating
- Crack injection systems
- Concrete adhesives

Advantages

- Good color
- Excellent penetration
- Good mechanical and chemical resistance properties

Typical properties of YD 520

Property	Test method	Unit	Specification
Appearance	Visual	-	Clear liquid
Color	ASTM-D-1544 (89) TEC-AS-P-006	Gardner	Max. 0.5
Epoxy Equivalent Weight	DIN 16945/4.15B (89) TEC-AS-C-002	g/eq.	200 - 250
Viscosity* @ 25 °C	JIS-K-7233 (86)	cP	400 - 600

* Brookfield viscosity

Typical properties of TH 7227

Property	Test method	Unit	Specification
Appearance	Visual	-	Clear liquid
Color	ASTM-D-1544 (89) TEC-AS-P-006	Gardner	Max. 2.0
Viscosity* @ 25 °C	JIS-K-7233 (86)	cP	10 - 50

* Brookfield viscosity

Typical application properties

Property	Test method	Unit	Specification
Mixing ratio with EPOTEC YD 520 (EEW - 225 g/eq)	-	By weight	100 : 11
Mix viscosity	JIS-K-7233 (86)	cP	400 - 600
Gel time (150 g mis) @ 25 °C	Technique GT-3 Gelation timer	Min	5 - 15
Thin film set time @ 25 °C	-	Hr	8 - 10

Typical performance properties*

Property	Test method	Unit	Specification
Glass transition temperature	ASTM-D-3418 (82)	°C	Min 40
Tensile strength	ASTM-D-368 (86)	kg/cm ²	310 - 415
Compressive strength	ASTM-D-695 (85)	%	600 - 750
Flexural strength	ASTM-D-790 (86)	kg/cm ²	70 - 73
Hardness	ASTM-D-2240 (86)	Shore D	70 - 73

* Sample cured with EPOTEC YD 520 (EEW = 225 g/eq) @ 25 °C (77 °F) for 7 days

Storage

Storage life least 12 months from the date of manufacture in original sealed container. Store in good ventilated cool place away from sources of heat, humidity and ignition.

Handling

Please refer to the respective MSDS for safe handling of EPOTEC YD 520 and EPOTEC TH 7227.

Disclaimer:

All recommendations for use of our product/s 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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