



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

**Epoxy Saturating System**  
**Epotech YD 524 / Epotech TH 7324**

**Description**

EPOTEC YD 524 is a diluent modified bisphenol-A type liquid epoxy resin with medium viscosity. EPOTEC TH 7324 is a medium low viscosity polyamide curing agent. When used together as a system the products give a medium viscosity, high strength epoxy polymer that can be used as a carbon fibre impregnating system for concrete repair.

**Applications**

- Resin impregnation with reinforcing fabrics (Carbon and glass fabrics)
- Saturating resin for concrete repair system

**Features**

- Contain no solvents
- 0% VOC (volatile organic compounds)
- Fast wetting of reinforcement materials
- Good mechanical and chemical resistance properties

**Specifications****Typical properties of YD 524**

Property	Test method	Unit	Typical Values
Appearance	Visual	-	Clear liquid
Colour	ASTM D 1544-04	Gardner	Max. 0.5
EEW	ASTM D 1652-04	g/eq	180-196
Viscosity* @ 25°C	ASTM D 2196-05	cPs	1900-2000

**Typical properties of TH 7324**

Property	Test method	Unit	Typical Values
Appearance	Visual	-	Amber clear liquid
Color	ASTM D 1544-04	Gardner	6.0 Max
Amine value	DIN 16945	mg KOH/g	380-410
Viscosity @ 25 °C	ASTM D 2196-05	cPs	1200-1400

**Typical system properties:**

Property	Test method	Unit	Typical Values *
Mixing ratio with EPOTEC YD 524 (EEW = 190 g/eq)	-	pbv	2 : 1
Mix viscosity	ASTM D 2196-05	cPs	1200
Pot Life (150 g mix) @ 25°C	Techne GT-3 Gelation timer	minutes	120
Appearance	Visual	-	Yellow liquid

\* Typical properties. Not to be construed as specifications

**Mechanical properties:**

Property	Test method	Unit	Typical Values *
Tensile strength	ASTM-D-638 (86)	MPa	58.2
Tensile Modulus	ASTM-D-638 (86)	MPa	3025.6
Hardness	ASTM-D-695 (85)	Shore D	82
Flexural strength	ASTM-D-790 (86)	MPa	101
Flexural Modulus	ASTM-D-790 (86)	MPa	2873.7
HDT	ISO 75-2	°C	50
Tg	DIN 11357	°C	57

\* Typical properties. Not to be construed as specifications.

**Storage**

Storage life 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 7324 and YD 524.

**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.

<p><b>For Additional Information, Please Contact:</b>  <b>Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division)</b>  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: <a href="http://www.adityabirlachemicals.com">www.adityabirlachemicals.com</a>, E-Mail: <a href="mailto:epoxymktg@adityabirla.com">epoxymktg@adityabirla.com</a></p>
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