



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

EPOTEC TH 7201**Description**

EPOTEC Hardener TH 7201 is a modified cycloaliphatic amine curing agent that contributes to high chemical resistance when it is cured with EPOTEC YD 128 or EPOTEC YDPN 661 multifunctional epoxy resin. EPOTEC Hardner TH 7201 exhibits outstanding resistance to strong oxidizing acids, many bases, chlorinated hydrocarbons and methanol gasoline mixtures.

Applications

- Chemical resistant flooring mortars
- High solid coatings
- Solvent free coatings
- Concrete repair compounds

Typical properties

Property	Test method	Unit	Specification
Appearance	Visual	-	Colorless low viscous liquid
Color	ASTM-D-1544 (89) TEC-AS-P-006	Gardner	Max. 3.0
Viscosity* @ 25 °C	JIS-K-7233 (86)	cPs	20 - 60

* Brookfield viscosity

Typical application properties

Property	Test method	Unit	Specification
Mixing ratio	-	By Weight	100 : 33
Gel time* (100 Gram Mix) @ 25 °C	Techne GT-3 Gelation timer	Minutes	18 - 30
Curing schedule at room temperature	-	Days	7 - 14

* = with standard epoxy resin EPOTEC YD 128, EEW = 190 g/eq

Typical performance properties*

Property	Test method	Unit	Specification
Glass transition temperature	ASTM-D-3418 (82)	°C	74 - 78
Tensile strength	ASTM-D-638 (86)	Kg/cm ²	400 - 500
Flexural strength	ASTM-D-790 (86)	Kg/cm ²	630 - 740
Compressive strength @ yield	ASTM-D-695 (85)	Kg/cm ²	630 - 770
Hardness	ASTM-D-2240 (86)	Shore D	80 - 82

* Sample cured with standard Bisphenol-A epoxy resin EPOTEC YD 128, (EEW = 190 g/eq) for 7 days.

Chemical resistance¹

The following 10 media were evaluated at ambient temperature. Three cured specimens, each measuring 1" x 3" x 0.125" are immersed in the specified media, and weights are checked at given intervals for change. Weight change is then reported as % change from the initial measurement. These specimens were cured for 7 days at ambient temperature.

Chemical	24 hrs.	7 days	28 days	90 days	180 days
Water	R	R	R	R	R
Sodium hydroxide	R	R	R	L	L
5 % acetic acid	R	L	L	N	-
Xylene/isopropyl alcohol 1:1	R	R	R	R	R
98 % sulfuric acid	R	R	R	R	R
Methyl ethyl ketone	R	R	R	R	R
Methanol	R	R	L	L	-
Methylene chloride	L	N	-	-	-
Gasoline	R	R	R	R	R
Diesel	R	R	R	R	R

Note: R: Resistant, L: limits Resistant, N: Not Resistant

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 7201.

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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