


Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division)
EPOTEC TH 7201
Description

Epotec TH 7201 is a low viscosity modified polyamine curing agent for use with liquid epoxy resins. When cured with liquid epoxy resin such as epotec YD 128 or multifunctional epoxy resin epotecc BYD 7201 or bis-F epoxy resin epotec YDF 170 it contributes to high chemical resistance. Epotec TH 7201 exhibits outstanding resistance to strong oxidizing acids, many bases, chlorinated hydrocarbons and methanol-gasoline mixtures.

Applications

- Chemical resistant floorings and mortars
- Chemical resistant coatings & linings
- Solvent free coatings

Specification

Appearance	Visual	Clear, light yellow liquid
Colour	ASTM D 1544-04	3 G max.
Viscosity* @25°C	ASTM D 2196-05	20 – 60 cP
Pot life [#] @25°C	TEC-AS-P-111	19 – 30 min
* Brookfield viscometer		# with epotec BYD 7201

Typical properties *

Odour	---	Amine
Density @25°C	ASTM D 1475-98	1.05 g/cc
Amine value	DIN 16945	475 – 520 mg KOH/g
AHEW	---	~ 60
PHR with epotec YD 128 (EEW ~ 190 g/eq)	---	33 wt. %
Flash point	ASTM D 93	100°C
Thin film set time		2 – 3 hr

* = Typical properties are indicated for information only

Guideline formulation Chemical resistant self leveling flooring

Part A

Epotec BYD 7201	100
Air release/De-foaming agent	4
Dispersing/Wetting agent	4
TiO ₂	5
Red iron oxide	5
Quartz sand	150

Part B

Epotec TH 7201	33
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Properties

Pot life	20 min
Dry film thickness	3 mm
P:B ratio	1 : 1
Shore D hardness Day 1	70
Day 7	82
Compressive strength	48 MPa

Chemical Resistance

The following media were evaluated at ambient temperature. Specimens cured for 7 days at R.T. (approx. 25 °C) were immersed in the specified media, and weights were checked at pre-determined intervals for any change. Weight change was then reported as % change from the initial measurement.

Chemical	3 days	8 Days	3 Months	6 Months
Conc. H ₂ SO ₄	E*	E*	E*	E*
Conc. HCl	E	E*	E*	E*
Conc. HF	F <i>(film swelling)</i>	F <i>(blisters)</i>	F <i>(some small cracks)</i>	F <i>(some small cracks)</i>
50 % HNO ₃	P	---	---	---
10 % HNO ₃	G	G	G	G
30 % CH ₃ COOH	F	P	---	---
10 % CH ₃ COOH	G	G <i>(surface itching)</i>	G <i>(surface itching)</i>	G <i>(surface itching)</i>
10 % Citric acid	E	E	E	E
10 % Lactic acid	E	E	E	E
50 % NaOH	E	E	E	E
Toluene	E	E	E	E
Xylene	E	E	E	E
Methanol	E	E	E	E
Ethanol	E	E	E	E
Butanol	E	E	E	E
MEK	G <i>(slight temperory softening)</i>	G <i>(slight temperory softening)</i>	G <i>(slight temperory softening)</i>	G <i>(slight temperory softening)</i>

CCl₄	E	E	E	E
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Note : E - Excellent, G - Good, F - Fair, P - Poor

* colour changes to brown

Packing

Epotec TH 7201 is packed and delivered in plastic drums, 200 kg per drum as a standard pack.

Other pack sizes are available on request.

Storage

Epotec TH 7201 should be stored in original tightly closed container, in dry and cool conditions. When exposed to air the product epotec TH 7201 may absorb moisture which may result in viscosity increase, frothing and white carbonation product deposition. In such case it may affect the appearance of final coating/floor topping. When stored in tightly closed container this product has a storage life of at least one year from the date of manufacturing.

Handling

Do not mix with epoxy resin until just prior to use since reacts chemically at room temperature. Avoid contact with skin, eyes etc. Please refer to the MSDS of the product for more instructions on safe storage and 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.

For Additional Information, Please Contact:

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