


Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division)
EPOTEC TH 7302
Description

Epotec TH 7302 is a low viscosity modified cycloaliphatic polyamine curing agent for use with liquid epoxy resins such as epotec YD 128 to produce solvent free room temperature curable thermoset coatings, floor toppings. When formulated appropriately with epoxy resin it gives clear, hard surface resistant to variety of chemicals such as acids, alkalies, hydrocarbons, water etc. Epotec TH 7302, being cycloaliphatic, also provides better weather resistance than aliphatic polyamines.

Applications

- Solvent-free, high solids coatings
- Primers and screeds
- Chemical resistant mortars and linings
- Water proofing
- Other construction applications

Specification

Appearance	Visual	Clear, light yellow liquid
Colour	ASTM D 1544-04	3 G max.
Viscosity* @25°C	ASTM D 2196-05	280 – 420 cP
Pot life [#] @25 °C	TEC-AS-P-111	25 – 35 min
* Brookfield viscometer		# with epotec YD 128

Typical properties *

Odour	---	Amine
Density @25°C	ASTM D 1475-98	1.05 g/cc
Amine value	DIN 16945	300 – 320 mg KOH/g
AHEW	---	~ 95
PHR with epotec YD 128 (EEW ~ 190 g/eq)	---	50 wt. %
Flash point	ASTM D 93	100°C
Thin film set time		6 – 7 hr
Glass transition temperature	DIN 11357	52°C
Tensile strength	ASTM D 638-86	540 kg/cm ²

Flexural strength	ASTM D 638-86	850 kg/cm ²
Compressive strength	ASTM D 695-85	750 kg/cm ²

* = Typical properties are indicated for information only

Additional information Chemical resistance with variety of epoxy resins

Chemical	Epotec YD 128 ²		Epotec YDF 170 ³		Epotec YDPN 661 ⁴	
	7 days	28 days	7 day	28 days	7 day	28 days
DI Water	R	R	R	R	R	R
50% Sodium hydroxide	R	R	R	R	R	R
10% sulfuric acid	R	R	R	R	R	R
30% Hydrochloric acid	R	R	R	R	R	R
10% acetic acid	A	D	R	A	R	A
Linseed oil fatty acid	R	R	R	R	R	R
Coconut oil fatty acid	R	R	R	R	R	R
Xylene	R	R	R	R	R	R
Ethanol	R	A	R	R	R	R
Gasoline	R	R	R	R	R	R

¹ = Test method ASTM-D-543. Curing schedule 25°C / 7 days
² = Standard Bisphenol A epoxy resin, EEW ~ 186 g/eq
³ = Standard Bisphenol F epoxy resin, EEW ~ 170 g/eq
⁴ = Multifunctional epoxy resin
 R = Resistant
 A = Attacked
 D = Damaged

Packing

Epotec TH 7302 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 7302 should be stored in original tightly closed container, in dry and cool conditions. When exposed to air the product epotec TH 7302 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 7302.

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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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