


Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division)
EPOTEC TH 7940
Description

Epotec TH 7940 is a phenalkamine curing agent. This hardener is designed for fast cure. The hardener is also capable of curing at low temperature and even in high humid conditions. It can be suitably used with an unmodified, modified and solvent based epoxy resins. Due to their fast yet workable pot life & ability to protect the underlying surface they are widely used in anti-corrosive applications

Applications

- Solvent based and high solids coatings
- Coatings under cold and damp condition
- Concrete floor coatings
- Pipe and tank linings
- Anti-corrosive maintenance coatings

Advantages

- Fast cure yet workable pot life at both ambient and low temperatures
- Non-critical mix ratio
- Good adhesion even to poorly prepared surface
- Good resistance to chemicals, salt water

Specification

Appearance	Visual	Reddish brown liquid
Colour	ASTM D 1544-04	17 Max.
Viscosity* @25°C	ASTM D 2196-05	2000 - 3000 cP
Pot life** (100 g mix) @ 25°C	TEC-AS-P-111	30 - 45 minutes
Non-volatiles	-	ca. 100%

* Brookfield viscosity

** with YD 128 (EEW = 190 g/eq)

Typical properties *

Amine value	DIN 16945	480 - 560 mgKOH/g
AHEW	-	80 g/eg
Mixing ratio with epotec YD 128	-	100 : 40 (pbw)
Mixed viscosity @ 25°C	ASTM D 2196-05	4300 - 5500 cP
Thin Film Set Time (Final Dry Time) @ 25°C	ASTM D 5895	3 - 5 hours
Glass transition temperature**	DIN 11357	50 °C Min.

* = Typical properties are indicated for information only

** Sample cured at 25°C for 7 days.

Curing Properties at low temperature*

Gel time (100 gram mix) @ 10°C	Techne GT-3 Gelation timer	114 minutes
Thin film set time @ 10°C		
- Solvent evaporation		1.50 hours
- Sol-gel transition	ASTM D 5895	8 hours
- Surface dry		12.30 hours
- Final dry		22 hours
Gel time (100 gram mix) @ 5°C	Techne GT-3 Gelation timer	164 minutes
Thin film set time @ 5°C		
- Solvent evaporation		2.00 hours
- Sol-gel transition	ASTM D 5895	11.30 hours
- Surface dry		12 hours
- Final dry		> 24 hours

* All properties with standard Bisphenol A epoxy resin Epotec YD 128, EEW = 190 g/eq in 5 % butanol (equivalent to TH7940NB)

Packing

The material Epotec TH 7940 is packed & delivered in 200 lit drums.

Storage

Storage life of Epotec TH 7940 is 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 the MSDS of the product for more instructions on safe storage and handling of epotec TH 7940.

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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