


**Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division)**
**EPOTEC TH 7941**
**Description**

Epotec TH 7941 is a phenalkamine curing agent. This curing agent is designed to cure even at low temperature and in high humid conditions. It can be suitably used with an unmodified, modified and solvent based epoxy resins. This curing agent is used in anti-corrosive applications especially in marine and industrial environment.

**Applications**

- Medium to high solids coatings
- Industrial maintenance, marine and pipe coatings
- Pipe and tank linings

**Advantages**

- Long pot-life at both ambient and low temperatures
- Non-critical mixing ratio
- Moisture tolerant during cure
- Good adhesion even to poorly prepared surface
- Good resistance to chemicals, salt water and superior corrosion resistance

**Specification**

Appearance	Visual	Reddish brown liquid
Colour	ASTM D 1544-04	17 G Max.
Viscosity* @25°C	ASTM D 2196-05	20,000 – 50,000 cP
Gel time (100 gram mix) @ 25 °C	Techne GT-3 Gelation timer	65 – 90 Minutes
Non-volatiles	-	ca. 100%

\* Brookfield viscosity

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

**Typical properties \***

Amine value	DIN 16945	310 - 350 mgKOH/g
AHEW	-	145 g/eg
Mixed viscosity@ 25 °C	-	20,000-22,000 cP
Mixing ratio with epotec YD 128 (EEW = 190 g/eq)	-	100 : 70
Thin film set time (Final Dry time time) @ 25°C	ASTM D 5895	6 - 9 hours
Glass transition temperature**	DIN 11357	50°C Min.

\*\* Sample cured at 25°C for 7 days.

\* = Typical properties are indicated for information only

**Curing Properties at low temperature\***

Gel time (100 gram mix) @ 10°C	Techne GT-3 Gelation timer	411 minutes
Thin film set time @ 10°C		
- Solvent evaporation		0.50 hours
- Sol-gel transition	ASTM D 5895	7.20 hours
- Surface dry		9.30 hours
- Final dry		17.30 hours
Gel time (100 gram mix) @ 5°C	Techne GT-3 Gelation timer	577 minutes
Thin film set time @ 5°C		
- Solvent evaporation		0.50 hours
- Sol-gel transition	ASTM D 5895	9 hours
- Surface dry		10 hours
- Final dry		19.10 hours

\* All properties with standard Bisphenol A epoxy resin Epotec YD 128, EEW = 190 g/eq diluted with 25 % solvent Solvesso 100 (equivalent to TH7941S10)

**Packing**

The material Epotec TH 7941 is packed & delivered in 200 lit drums.

**Storage**

Storage life of Epotec TH 7941 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 7941.

**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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