

## EPOTEC TH 7305

### Description

EPOTEC TH 7305 is a low viscosity modified cycloaliphatic amine epoxy curing agent. It cures faster at low temperature and provides surface with good gloss, resistance to a variety of chemicals.

### Applications

- High solid coatings
- Decorative and self leveling floorings
- Chemical resistant mortars and linings

### Advantages

- Good colour and colour stability
- High gloss
- Low viscosity
- Good resistance to variety of chemicals

### Typical properties

| Property          | Test method                      | Unit    | Specification                    |
|-------------------|----------------------------------|---------|----------------------------------|
| Appearance        | Visual                           | -       | Colorless to light yellow liquid |
| Color             | ASTM-D-1544 (89)<br>TEC-AS-P-006 | Gardner | Max. 2.0                         |
| Amine value       | TEC-AS-C-058                     | mgKOH/g | 385 - 405                        |
| VISCOSITY* @ 25°C | JIS-K-7233 (86)                  | cPs     | 20 - 80                          |

\* Brookfield viscosity

### Typical application properties

| Property   | Test method                   | Unit      | Specification |
|--|-------------------------------|-----------|---------------|
| Mixing ratio with standard epoxy resin (EEW = 190g/eq) | -                             | By Weight | 100:45        |
| Mixed viscosity* @ 25°C                                | JIS-K-7233 (86)               | cPs       | 2,000 - 2,500 |
| Gel time (100 gram mix) @ 25°C                         | Techne GT-3<br>Gelation timer | Minutes   | 28 - 40       |
| Thin film set time @ 25°C                              | -                             | Hours     | 5 - 7         |

\* Brookfield viscosity

### Typical performance properties\*

| Property                     | Test method      | Unit               | Specification |
|------------------------------|------------------|--------------------|---------------|
| Glass transition temperature | ASTM-D-3418 (82) | °C                 | 48 - 55       |
| Tensile strength             | ASTM-D-638 (86)  | Kg/cm <sup>2</sup> | 400 - 500     |
| Tensile elongation           | ASTM-D-638 (86)  | %                  | 1.5 - 2.5     |
| Flexural strength            | ASTM-D-790 (86)  | Kg/cm <sup>2</sup> | 840 - 1,000   |
| Compressive strength @ yield | ASTM-D-695 (85)  | Kg/cm <sup>2</sup> | 600 - 800     |
| Hardness                     | ASTM-D-2240 (86) | Shore D            | 80 - 82       |

\*Sample cured with standard Bisphenol-A epoxy resin (EEW = 190 g/eq) at 25°C (77°F) for 7 days.

**Storage**

Storage life at least 12 months from the date of manufacture in original sealed container. Store in good ventilated cool place. Store away from heat and humidity.

**Handling**

Please refer to MSDS for safe handling of EPOTEC TH 7305.

**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:**

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