

EPOTEC TH 7901

Description

EPOTEC TH 7901 is a modified cycloaliphatic amine curing agent designed to cure in presence of high humidity, low temperature and wet conditions. It can be suitably used with an unmodified, modified and solvent based epoxy resins.

Applications

- Solvent free and high solid coatings
- Laminates
- Chemical resistant floorings, mortars

Advantages

- High reactivity
- Excellent adhesion to wet surfaces
- Good gloss and smooth finishes
- Good resistance to chemicals, water spotting and blush

Typical properties

Property	Test method	Unit	Specification
Appearance	Visual	-	Light yellow liquid
Colour	ASTM-D-1544 (89) TEC-AS-P-006	Gardner	Max. 4.0
Amine value	TEC-AS-C-058	mgKOH/g	290 - 320
Viscosity* @ 25°C	JIS-K-7233 (86)	cPs	100 - 300

* Brookfield viscosity

Typical application properties

Property	Test method	Unit	Specification
Mixing ratio with standard epoxy resin (EEW = 190 g/eq)	-	By Weight	100 : 55
Mixed viscosity* @ 25°C	JIS-K-7233 (86)	cPs	1,200 - 1,800
Gel time (100 gram mix) @ 25°C	Techne GT-3 Gelation timer	Minutes	20 - 35
Thin film set time @ 25°C	-	Hours	5 - 6

* Brookfield viscosity

Typical performance properties*

Property	Test method	Unit	Specification
Glass transition temperature	ASTM-D-3418 (82)	°C	min 40
Tensile strength	ASTM-D-638 (86)	Kg/cm ²	450 - 560
Tensile elongation	ASTM-D-638 (86)	%	3 - 4
Flexural strength	ASTM-D-790 (86)	Kg/cm ²	700 - 850
Bond strength (mild steel to mild steel)	ASTM-D-638 (86)	Kg/cm ²	90 - 105
Hardness	ASTM-D-2240 (86)	Shore D	78 - 82

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

Storage

Store away from excessive heat and humidity, preferably in the original containers kept tightly closed. Under these conditions and at normal temperature, the storage life should be at least one year.

Handling

Please refer to MSDS for safe handling of EPOTEC TH 7901.

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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