



# SANHO CHEMICAL CO., LTD.

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## TOHMIDE TXS-53C

TOHMIDE TXS-53C is a self-emulsifiable type epoxy curing agent. The mixture with liquid type epoxy resin provides stable emulsion, and can be used for pollution-free coating containing no solvents in its system. Outstanding is penetrating power of TOHMIDE TXS-53C into absorbent concrete, steel plate and other inorganic substrates. Among them, as TOHMIDE TXS-53C is a water dilutable, such application as concrete primer is most recommendable.

### 1. SALES SPECIFICATION

Appearance	: Yellow brown colour, *turbid viscous liquid
Viscosity (mPa · s /25°C)	: 3,000 ~ 12,500
Amine Value (JIS)	: 240 ± 30
Colour (Gardner)	: 12 Max.
Solid Content (%)	: 50 ± 3
A.H.E.W.	: 180

Remark : \* solvent = water

Degree of resin-turbidity varies with storage temperature, when storage temperature comes below minus 5°C, the resin freeze. Even after freezing it can be re-homogenised without deterioration of the quality.

### 2. RECOMMENDED MIXING RATIO

100 ~ 120 parts by weight to 100 parts of Bisphenol-A type epoxy resin whose epoxy equivalent weight is about 190.

### 3. DRYING PROPERTIES

Resin content (TOHMIDE TXS-53C) in the mixture with epoxy resin, whose epoxy equivalent weight is about 190, is diluted in 50% by water.

Relative humidity = 50% at 23°C of room temperature.

Film thickness = 200µm. Measured by RCI Drying Recorder.

Mixing ratio;PHR	100	120
Set to touch, h	2.0	2.0
Tack free, h	3.0	3.0
Dry through, h	9.0	8.0

### 4. CLEAR VARNISH TEST DATA

Resin content (TOHMIDE TXS-53C) in the mixture with epoxy resin, whose epoxy equivalent weight is about 190, is diluted in 50% by water.

Curing condition : 23°C of room temperature × 7 days.

Dry film thickness : 40µm onto mild steel sheet.

100mg / cm<sup>2</sup> onto slate plate.



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Mixing ratio; PHR	100	120
Physical strength :		
(onto mild steel sheet)		
Pencil scratch test	2B	HB
Cross Cut (2mm width)	25 / 25	25 / 25
Flexure crack,(dia = 3mm)	No crack	No crack
Impact test (500g, mm pass)	500	300
(onto slate plate)		
Cross Cut (2mm width)	25 / 25	25 / 25
Chemical resistance :		
(mild steel plate)		
Tap water, 48 h	4S	6S
10% caustic soda solution, 48 h	6S	4S
5% sulfuric acid solution, 48 h	Totally swelling	Totally swelling
5% salt water solution, 48 h	2M	2S
(Slate plate)		
Tap water, 48 h	8VS	6VS