



SANHO CHEMICAL CO., LTD.

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TOHMIDE 437

TOHMIDE 437 is a polyamide-adduct type epoxy curing agent designed for coating (paint) applications. TOHMIDE 437 provides its cured films with such high orders as quick drying and excellent chemical resistance.

1. SPECIFICATIONS

Appearance	: Brown viscous liquid.
Non Volatile Matter	: $75 \pm 2\%$
Viscosity	: Z ~ Z ₅
Colour	: 12 Max.
Amine Value	: 250 ± 15 (by JIS method)

2. CURING AND DRYING PROPERTIES

Epoxy resin : employed Bisphenol-A type, whose epoxy equivalent weight is about 195.

The epoxy resin was diluted with Xylene.

(Epoxy resin : Xylene = 75 : 25)

23°C, by RCI Drying Recorder.

Mixing Ratio :		
Epoxy varnish / TOHMIDE 437	100 / 45	100 / 36
Set to touch (hours)	9.0	10.5
Tack free (hours)	12.5	13.0
Dry through (hours)	43	44
◎Film surface	slightly hazy	slightly hazy

◎ The mixed resin of epoxy and TOHMIDE 437 was applied onto glass sheets, which were immersed into tap water 48 hours later to observe film surface.

3. PHYSICAL PROPERTIES AND CHEMICAL RESISTANCE

The same clear varnish of an epoxy resin and TOHMIDE 437 as item 2. was employed.

The clear varnish was coated by Bar Coater No.75 onto mild steel sheets with buff treatment, and cured at an ambient temperature for 7 days.

Dry film thickness = 80µm

Mixing Ratio :		
Epoxy varnish / TOHMIDE 437	100 / 45	100 / 36
PHYSICAL PROPERTIES		
Pencil Scratch test	HB	HB



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Mixing Ratio : Epoxy varnish / TOHMIDE 437	100 / 45	100 / 36
Cross Cut (1 mm width)	100/100	100/100
Bending test (2 mm ↙)	No abnormality	No abnormality
Erichsen value (6 mm)	No abnormality	No abnormality
Impact resistance (Face)	No abnormality	No abnormality
(Falling-Ball method 1/2" dia, 500gram, 500cm height) (Back)	No abnormality	No abnormality
CHEMICAL RESISTANCE (one month)		
Tap Water	No abnormality	No abnormality
5% solution of salt water	No abnormality	No abnormality
10% solution of caustic soda	No abnormality	No abnormality
5% solution of sulfuric acid	9S	9S
Salt spray (72 hours ,Swelling distance from the cut point of film)	3 ~ 4 mm	2 mm