





# SANHO CHEMICAL CO., LTD.

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Pot life was measured by the time required for the initial viscosity of the mixed resin of KINGMIDE 300-65 and epoxy resin to increase twice and three times progressively.

Test temperature : 23°C  
 by Brookfield viscometer TYPE-M

Initial viscosity (mPa·s)	750
Time required to reach twice in its viscosity.	10.6 hours
Time required to reach three times in its viscosity	15.2 hours

## (2) Drying Characteristics :

Epoxy resin : employed the same dissolved epoxy resin as that of above (3)-1.  
 Then, the mixed resin of Kingmide 300-65 and epoxy resin was dissolved with xylene, where resin contents is 60%.  
 Thereafter the mixed resin was applied onto the test glass sheets.

23°C, by RCI Drying Recorder.

Mixing Ratio :	100 : 130	100 : 110	100 : 90
Epoxy resin solution : KINGMIDE 300-65			
Tack free (hours)	1.4	1.5	1.5
Set to touch (hours)	4.1	4.3	4.6
Dry through (hours)	18.0	21.0	24

## 4. CLEAR ENAMEL TEST

(1) Epoxy resin : employed the same dissolved epoxy resin as that of above (3)-1.  
 Mixed resin of Kingmide 300-65 and epoxy resin was applied onto cold rolled steel sheets by Bar Coater.

Curing condition = 23°C for 7 (seven) days.

Film thickness = dry film thickness : 50µm

Epoxy resin solution : KINGMIDE 300-65	100 : 130	100 : 110	100 : 90
Cross Cut (2 mm width)	25 / 25	25 / 25	25 / 25
Flexibility (2 mm core rod)	OK	OK	OK
Du Pont Impact Test (Back)*	OK	OK	OK
Pencil Scratch Test	B	B	HB

Remark : \*Du Pont Impact Test :

Diameter of shock mould = 12.7 mm

Weight of shock mould = 500gr.

Height of falling down the mould = 50 cm.

(2) Chemical resistance :



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Mixing Ratio : Epoxy resin solution/ KINGMIDE 300-65	100/130	100/110	100/90
Tap water , 40°C × 7 days. Cross cut (2 mm width)	Unabnormality		
	6/25	8/25	12/25
5% solution of salt water, 40°C, 7days Cross Cut (2 mm width)	9-S 5 / 25	9-M 8 / 25	9-M 20 / 25
Tap Water, 7 days Tap Water, 30 days	Unabnormality		
5% solution of salt water, 7 days	9-VS	9-VS	9-VS
5% solution of salt water, 30 days	9-M	8-M	8-M
5% solution of sulfuric acid, 7 days	9-S	9-VS	9-VS
5% solution of sulfuric acid, 30 days	8-M	8-M	8-M
10% solution of caustic soda, 7 days 10% solution of caustic soda, 30 days	Unabnormality		
Salt Water Spray Test ( swelling width)	4 mm	4 mm	4~5 mm

Remarks : The figures listed herein are measured / determined according to the Standard Evaluation for Paint Film specified by Japan Paint Inspecting Association.

\* Each figures indicate;

0= Swelling over full area of the cured films.

10= No swelling of the cured films.

\*\* VS= very small degree of swelling.

S= small degree of swelling.

M= medium degree of swelling.