



# SANHO CHEMICAL CO., LTD.

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## KINGMIDE X-2700

KINGMIDE X-2700 is a solvent type epoxy curing agent of modified polyaminoamide, designed for such coating applications as tar-epoxy system and enamel type. It provides high performance epoxy paint for low temperature and wet surface, it is cured film with high orders of curing properties, and superior anti-chemical resistance, water resistance

### 1. SPECIFICATIONG

Appearance	: Brown, viscous liquid
Solid content (%)	: 70 ± 2
Viscosity (Gardner Holdt/25°C)	: X~ Z <sub>1</sub>
Amine value (JIS)	: 150 ± 10
Color (Gardner)	: 7 Max.
A.H.E.W.	: 245
Solvent (ratio)	: Toluene /Isobutanol = 93/7

### 2. RECOMMENDED MIXING RATIO

- (1). 95 ~ 145 parts by weight to 100 parts of liquid epoxy resin whose epoxy equivalent weight is about 190.
- (2) 35 ~ 60 parts by weight to 100 parts of liquid epoxy resin whose epoxy equivalent weight is about 490.

### 3. DRY FILM CHARACTERISTICS

MIXING		SOILD EPOXY	SEMI-SOILD EPOXY
Set-To-Touch(Wet 200 μ)		5.9hr	5.8hr
Dry -Through(Wet 200 μ)		18.2hr	8.0hr
Pencil Scratch Test (Wet 300 μ)	1day	F	F
	2day	F	H
	3day	F	H
	4day	F	H
	7day	H	H
	30day	H	H <sup>+</sup>

Test Item	1	2	3	4
Test Item \ Hardener	X-2700	X-2700+DMP-30	305-70	Other
Set-To-Touch 5°C	20hr	17 hr	Not-Cure	Not-Cure
500 μ 10°C	12 hr	10 hr	14 hr	—
1000 μ 20°C	9 hr	7 hr	12 hr	9 hr
GelTime 20°C	5 hr	3 hr	24 hr	14 hr



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## 4. CHEMICAL RESISTANCE

Test Item	1	2	3	4
Test Item \ Hardener	X-2700	X-2700+DMP-30	305-70	Other
Toluene 7 day	◎	◎	◎	◎
Methanol 7 day	◎	◎	◎	◎
5 % Sulfuric Acid Solution 7 day	◎	◎	◎	◎
5 % Caustic Soda Solution 7 day	◎	◎	◎	◎
5 % Salt solution 7 day	◎	◎	◎	◎

## 5. CURING CHARACTERISTICS

RT: 22~23°C Curing Time: 4~14day

Test Item	1	2	3	4
Test Item \ Hardener	X-2700	X-2700+DMP-30	305-70	Other
FLEXURE CRACK 1 / 8 inch	◎	◎	◎	◎
Erichsen (mm)	10 <	10 <	10 <	10 <
Du Pont Impact Test (cm/kg)	50 <	50 <	50 <	50 <
Cross Cut (1 <sup>mm</sup> x1 <sup>mm</sup> )	100	100	100	100
Hardness 4day	2	2	2	2
(thickness 500μ) 7day	4	5	6	3
(Sward Rocker value) 14day	8	8	1 1	6
Peel Strength (90 °C)	0.23	—	0.23	0.13
kg/cm (Fe/Fe)	0.19	—	0.05	0.10
5°C Salt solution 7 day (40°C)	100	—	63	80
Elongation%	36	—	28	19
Tensile strength kg/cm				

## 6 Applications:

- 6-1 Coal Tar-Epoxy Resin Coating ( thickness onto 500 μ )
- 6-2 Solvent Type Epoxy Resin Coating
- 6-3 High Performance Epoxy Paint For Low Temperature And Wet Surface
- 6-4 Water Resistance 、 chemical Resistance