



# SANHO CHEMICAL CO., LTD.

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## KINGMIDE 300

KINGMIDE 300 is a high molecular weight, reactive polyamide resin designed for use with epoxy resins. It is semi-solid form at room temperature and can be combined with others polyamide resin from any mixing ratio. KINGMIDE 300 has been designed for use in coatings where excellent adhesion, good chemical resistance, good water resistance. high toughness are required. KINGMIDE 300 may be used for flexibilizer.

### 1. SPECIFICATIONS

Appearance	: Brown-colored viscous liquid.
Viscosity (200°C)	: 200~600 mPa·s
Colour (Gardner)	: 10 Max.
Amine Value	: 95 ±5
A.H.E.W.	: 500
Sp.Gr. (25°C)	: 0.97

### 2. RECOMMENDED MIXING RATIO

100 parts to 100 parts of bisphenol-A type epoxy resin whose epoxy equivalent weight is about 450~500

### 3. CURING CHARACTERISTICS

coatings characteristics

Uses different epoxy resin with different ratio. the curing characteristics were measured at 23°C as follow :

EPOXY RESIN/ SOLVENT	XYLENE	*E C S	
KINGMIND 300	1	1	50% SOLUTION
DER-661 (EPON-1001)	1	3	50% SOLUTION
ESP-83 (DER-337)	1	1	50% SOLUTION

\*E C S=ETHYLCELLSOLVE

EPOXY RESIN / CURING AGENT	RATIO	GEL TIME
DER-661 / KINGMIND 300	1 : 1	41 HOURS
DER-337 / KINGMIND 300	4 : 6	50 HOURS



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## COATINGS FILM HARDNESS(NON-FILLERS)

RESIN	RATIO	CURING	SWARD ROCKER			
			1DAY	3DAY	8DAY	15DAY
DER-661 / KINGMIND 300	1 : 1	AMBIENT	16	30	46	48
		120°C×60MIN	34	38	42	48
		150°C×30MIN	40	48	48	48
DER-337 / KINGMIND 300	4 : 6	AMBIENT	8	8	24	28
		120°C×60MIN	24	26	34	38
		150°C×30MIN	30	32	40	48

## 4. CHEMICAL RESISTANCE PROPERTIES OF CURED FILMS

ITEM	RESIN	RATIO	CURING CONDITION		
			AMBIENT	120°C×60MIN	150°C×60MIN
3% SOAP SOLUTION 60°C×24 IMMERSION			72HOURS		
	300:DER-660	1 : 1	NON-ATTACK	NON-ATTACK	NON-ATTACK
	300:DER-337	6 : 4	NON-ATTACK	NON-ATTACK	NON-ATTACK
10% NAOH SOLUTION 100°C×24 IMMERSION			114HOURS		
	300:DER-660	1 : 1	NON-ATTACK	NON-ATTACK	NON-ATTACK
	300:DER-337	6 : 4	NON-ATTACK	NON-ATTACK	NON-ATTACK