



SANHO CHEMICAL CO., LTD.

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KINGMIDE 701

KINGMIDE 701 is a modified aliphatic amidoamine curing agent designed for use with liquid epoxy resin to achieve cure at room temperature. It can be used as the sole curing agent or mixed with other curing agents to adjust the cure rate or other properties. Special features of KINGMIDE 701 include its low viscosity and ability to cure under humid conditions and give excellent adhesion. Applications include civil engineerings, adhesives for new to old concrete, patching compounds and crack injections.

Physical State: Amber liquid

Storage Life: At least 24 months from date of manufacture in original sealed container stored undercover at ambient temperature away from excessive heat and humidity.

Typical Properties:

Viscosity (mPa·s/ 25°C)	: 500 ~ 1,000
Amine value (JIS)	: 560±20
Colour (Gardner)	: 12 Max
Specific gravity (25/25°C)	: 0.98
Flash point (°C ;closed cup)	: 125
A.H.E.W	: 66

Recommended usage: 30~ 40 parts per 100 parts of liquid epoxy resin
Having an epoxide equivalent weight of 190.

Typical Handling Properties:

Mixed viscosity (23°C)	28 Poise
Gel time (100g mix at 23°C)	31 Mins
Thin film set time(25°C)	7.1 Hours
Peak exotherm (100g mix at 23°C)	192 °C
Time to peak exotherm	43 Mins

Typical Cure Schedule: (I)7-14 days at 25°C
(II)2 days at 25°C plus 2 hours at 100°C

Typical Performance:	Heat distortion temperature, deg C	45
(following cure	Barcol hardness (Model GYZJ 935)	77
schedule(II)	Bond strength (mild steel), N/mm ²	14.2
	Flexural strength, N/mm ²	61
	Flexural modulus, KN/mm ²	2.43
	Tensile strength, N/mm ²	43.7
	Tensile modulus,KN/mm ²	3.27
	Elongation at break, %	1.41
	Compressive strength, N/mm ²	79

Chemical resistance: Good to excellent against water and most aqueous media
Except organic acids; moderate to poor against organic solvents.



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