



SANHO CHEMICAL CO., LTD.

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KINGMIDE 334

KINGMIDE 334 is a low viscosity, reactive polyamide resin designed for use with liquid epoxy resins to achieve fast cure at room temperature. KINGMIDE 334 systems are suitable for use in civil engineering, putties, and adhesives. typical properties of KINGMIDE 334 is to give short pot life.

1. SPECIFICATIONS

Appearance	: Brown-colored viscous liquid
Viscosity (mPa · s /25°C)	: 450 ~ 650
Amine Value (JIS)	: 610 ± 20
Color (Gardner)	: 10 Max.
Specific Gravity (25 / 25°C)	: 0.96
A.H.E.W.	: 60

2. RECOMMENDED MIXING RATIO

25~45 parts by weight to 100 parts of bisphenol-A type liquid epoxy resin whose epoxy equivalent weight is about 190.

3. CURING CHARACTERISTICS

Exothermic Reaction.

Epoxy resin : bisphenol-A type liquid epoxy resin whose epoxy equivalent weight is about 190.

Total mass : 100g

Room temperature : 23°C

Epoxy resin / KINGMIDE 334	100 / 25	100 / 35	100 / 45
Peak exothermic time. (min.)	36	30	27
Peak exothermic temp. (°C)	171	208	199
Gel time (min.)	29	24	22

4. MECHANICAL PROPERTIES

Epoxy resin : bisphenol-A type liquid epoxy resin whose epoxy equivalent weight is about 190. Curing time: at 23°C for 7days (JIS K6911)

Epoxy resin / KINGMIDE 334	100 / 25	100 / 35	100 / 45
Tensile Strength (kgf/mm ²)	4.8	6.8	7.7
Bending Strength (kgf/mm ²)	8.6	11.9	11.3
Flexural Modulus (kgf/mm ²)	3.9×10 ²	3.9×10 ²	3.8×10 ²
Compressive strength (kgf/mm ²)	10.8	10.8	10.2
Izod Impact Strength (kgf/cm-cm)	1.5	0.9	2.1
Rockwell Hardness (M-scale)	85	85	84
Heat Distortion Temp (°C)	46	51	52



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5. LAP SHEAR STRENGTH

Epoxy resin : employed same epoxy resin as above (4)

Curing time at 23°C for 7 days.

Epoxy resin / KINGMIDE 334	100 / 25	100 / 35	100 / 45
Lap shear strength * (kgf/cm ²)	117	118	132

* Mild steel plate with sand blast treatment. were employed.

6. CHEMICAL RESISTANCE

Epoxy resin : bisphenol-A type epoxy resin liquid whose epoxy equivalent weight is about 190

Precured at 23°C for 7 days

Measured the weight change of the cured products after immersing them into following chemical substrates

Unit : %

Epoxy Resin / K-334	100 / 25			100 / 35			100 / 45		
	1	7	30	1	7	30	1	7	30
Tap water	0.2	0.4	0.9	0.1	0.4	0.9	0.2	0.5	1.0
5% salt water solution	0.1	0.4	0.9	0.1	0.4	0.9	0.1	0.4	1.0
10% caustic soda solution	0.2	0.4	0.7	0.1	0.3	0.8	0.1	0.4	0.9
10% ammonia solution	0.1	0.4	0.8	0.1	0.4	0.9	0.1	0.4	0.9
5% sulfuric acid solution	0.1	0.4	0.9	0.2	0.7	1.1	0.4	1.2	2.1
5% hydrochloric acid solution	0.1	0.4	0.9	0.1	0.4	0.9	0.3	0.7	1.4
Kerosene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Isopropanol	0.3	0.6	0.6	0.2	0.4	0.6	0.3	0.6	1.2
Methyl isobutyl ketone	9.6	22.2	broken	3.0	6.3	8.6	1.4	4.0	7.6