



SANHO CHEMICAL CO., LTD.

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KINGMIDE 74-KB

KINGMIDE 74-KB is a low viscosity, reactive polyamide resin designed for use with liquid epoxy resins to achieve cure at room temperature.

KINGMIDE 74-KB systems are suitable for use in civil engineerings, putties and adhesives applications. Typical properties of KINGMIDE 74-KB in a cured coating is to give long pot life.

1. SPECIFICATIONS

Appearance	: Brown-colored viscous liquid
Viscosity (mPa · s /25°C)	: 500 ~ 1,000
Amine Value (JIS)	: 420± 20
Colour (Gardner)	: 12 Max.
Specific Gravity	: 0.96
A.H.E.W.	: 100

2. RECOMMENDED MIXING RATIO

40~60 parts by weight to 100 parts of bisphenol-a type epoxy resin whose epoxy equivalent is about 190.

3. CURING CHARACTERISTICS

Epoxy resin	: Employed bisphenol-A type epoxy resin whose EEW is 190.
Total mass	: 100g
Room temperature	: 23°C

Epoxy resin / KINGMIDE 74-KB	100 / 40	100 / 50	100 / 60
Peak exothermic time (min.)	115	120	101
Peak exothermic temp.(°C)	63	99	125
Pot life (min.)	107	103	90

4. MECHANICAL PROPERTIES



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Epoxy resin : bisphenol-A type epoxy resin whose epoxy equivalent weight is about 190.
 Precured at 23°C for 7day

Epoxy resin / KINMIDE 74-KB		100 / 40	100 / 50	100 / 60
Tensile Strength	(kgf/mm ²)	3.5	7.0	6.8
Bending Strength	(kgf/mm ²)	8.6	9.0	7.9
Flexural Modulus	(kgf/mm ²)	2.9×10 ²	3.0×10 ²	2.8×10 ²
Compressive strength	(kgf/mm ²)	7.9	8.1	7.7
Izod Impact Strength	(kgf/cm-cm)	2.4	2.2	1.9
Rockwell Hardness	(M-scale)	68	74	73
Heat Distortion Temp	(°C)	44	47.5	49

5. LAP SHEAR STRENGTH

Epoxy resin : employed same epoxy resin as above (4)
 precured at 23°C for 7 days.

Epoxy resin / KINGMIDE 74-KB	100 / 40	100 / 50	100 / 60
Lap shear strength *(kgf/cm ²)	162	153	148

* 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 day

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

Unit : %

Epoxy Resin / KINGMIDE-74KB	100 / 40			100 / 50			100 / 60		
	1	7	30	1	7	30	1	7	30
Tap water	0.3	0.6	1.2	0.3	0.7	1.4	0.3	0.7	1.5
5% salt water solution	0.1	0.5	1.1	0.3	0.6	1.3	0.3	0.7	1.5
10% caustic soda solution	0.3	0.5	1.0	0.4	0.6	1.1	0.4	0.6	1.2
10% ammonia solution	0.2	0.6	1.2	0.2	0.6	1.3	0.2	0.6	1.3
5% sulfuric acid solution	0.3	0.7	1.3	0.3	0.8	1.5	0.5	1.1	2.0
5% hydrochloric acid solution	0.2	0.6	1.3	0.3	0.7	1.4	0.3	0.8	1.6
Kerosene	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Isopropanol	0.9	2.0	0.0	0.9	2.0	0.0	0.9	2.4	0.0
Methyl isobutyl ketone	9.8	broken	broken	6.0	16.5	0.0	2.7	10.3	0.0