



SANHO CHEMICAL CO., LTD.

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KINGMIDE 374-L

KINGMIDE 374-L is a low viscosity, reactive polyamide resin designed for use with liquid epoxy resins to achieve fast cure at room temperature. KINGMIDE 374-L systems are suitable for use in civil engineerings, mortars, putties and adhesives applications.

1. SPECIFICATIONS

Appearance	: Brown-colored viscous liquid
Viscosity (mPa · s / 25°C)	: 200 ~ 400
Amine Value (JIS)	: 550 ±20
Color (Gardner)	: 12 Max.
Specific Gravity(25 / 25°C)	: 0.95
A.H.E.W.	: 65

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

3-1 Exothermic Reaction.

Epoxy resin	: bisphenol-A type liquid epoxy resin whose epoxy equivalent weight is about 190.
Total mass	: 100g
Room temperature	: 25°C

Epoxy resin / KINGMIDE 374-L	100 / 25	100 / 35	100 / 45
Peak exothermic time. (min.)	62	47	42
Peak exothermic temp. (°C)	130	177	188

3-2 Drying Characteristics

Epoxy resin	: bisphenol-A type liquid epoxy resin whose epoxy equivalent weight is about 190.
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By RCI Drying Recorder : At 23°C for 7days.

◎Film thickness about 200um

Epoxy resin / KINGMIDE 374-L		100 / 25	100 / 35	100 / 45
23°C	Set to touch (hours)	2.4	1.8	1.7
	Tack free (hours)	6.6	4.2	3.3
	Dry through (hours)	over16	over16	over16



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4. MECHANICAL PROPERTIES

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

Epoxy resin / KINGMIDE 374-L		100 / 25	100 / 35	100 / 45
Tensile Strength	(kgf/mm ²)	5.0	6.1	6.8
Bending Strength	(kgf/mm ²)	7.1	8.3	9.9
Flexural Modulus	(kgf/mm ²)	2.3×10 ²	3.1×10 ²	3.0×10 ²
Compressive strength	(kgf/mm ²)	7.3	9.1	9.0
Izod Impact Strength	(kgf/cm-cm)	1.0	1.5	1.7
Rockwell Hardness	(m-scale)	56	77	72
Heat Distortion Temp	(°C)	37	47	51

5. LAP SHEAR STRENGTH

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

Epoxy resin / KINGMIDE 374-L	100 / 25	100 / 35	100 / 45
Lap shear strength * (kgf/cm ²)	89	147	137

* 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- 374-L	100 / 25			100 / 35			100 / 45		
	1	7	30	1	7	30	1	7	30
Immersing time (days)									
Tap water	0.2	0.5	1.0	0.1	0.4	0.9	0.1	0.5	1.0
5% salt water solution	0.2	0.5	1.0	0.1	0.4	0.9	0.2	0.5	1.0
10% caustic soda solution	0.1	0.4	0.8	0.1	0.4	0.8	0.2	0.4	0.9
10% ammonia solution	0.2	0.5	0.9	0.2	0.4	0.9	0.1	0.5	1.0
5% sulfuric acid solution	0.2	0.5	1.0	0.3	0.7	1.3	1.0	2.3	4.2
5% hydrochloric acid solution	0.0	0.5	1.0	0.2	0.6	1.1	0.6	1.5	2.8
Kerosene	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1
Isopropanol	0.3	0.7	0.8	0.3	0.8	1.1	0.2	1.0	1.7
Methyl isobutyl ketone	9.5	—	—	4.0	10.3	14.1	2.0	5.9	9.5