



SANHO CHEMICAL CO., LTD.

NO. 1, ZHONGSHAN S. RD., LUZHU DIST., KAOHSIUNG CITY, TAIWAN.
TEL : 886-7-6962211~3 [http : // www.sanho.com.tw](http://www.sanho.com.tw)
FAX : 886-7-6976993 (Sales) E-mail : sanho@sanho.com.tw
FAX : 886-7-6961782 (Export) E-mail : sanho@so-net.net.tw

KINGCURE I-934

KINGCURE I-934 is a room temperature curing agent for liquid epoxy resins. This modified aliphatic amine hardener is low viscosity and light in color. Its cured products with epoxy resins give smooth and glossy surface. Major applications of this I-934 include various types of surface coatings, self-leveling floors, resin mortars, laminates, adhesives, and casting.

1. SPECIFICATIONS

Appearance	: Light yellow, Low viscosity liquid.
Viscosity (mPa·s /25°C)	: 80 ~ 200
Amine Value (JIS)	: 175±10
Colour (Grandier)	: 3 Max.
Specific Gravity (25 / 25°C)	: 1.02
AHEW	: 100

2. RECOMMENDED MIXING RATIO

45~55 Parts by weight to 100 parts of 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 : 23°C

Epoxy resin / KINGCURE I-934	100 / 50	100 / 60	100 / 70
Peak Exothermic Time (min.)	100	98	85
Peak Exothermic Temperature (°C)	78	103	122
Gelling Time (min.)	113	90	78

4. MECHANICAL/PHYSICAL PROPERTIES

Epoxy resin / KINGCURE I-934	100 / 50	100 / 60	100 / 70
Tensile Strength kgf/mm ²	5.3	5.8	5.1
Flexural Strength kgf/mm ²	6.8	7.7	6.9
Flexural Modulus kgf/mm ²	290	340	320
Compressive Strength kgf/mm ²	7.1	7.2	6.5



SANHO CHEMICAL CO., LTD.

NO. 1, ZHONGSHAN S. RD., LUZHU DIST., KAOHSIUNG CITY, TAIWAN.
 TEL : 886-7-6962211~3 [http : // www.sanho.com.tw](http://www.sanho.com.tw)
 FAX : 886-7-6976993 (Sales) E-mail : sanho@sanho.com.tw
 FAX : 886-7-6961782 (Export) E-mail : sanho@so-net.net.tw

Izod Impact Strength	kgf-cm/cm	2.1	3.3	3.9
Rockwell Hardness	M-scale	50	52	42
Heat Distortion Temperature	°C	38.5	42	41

5. CHEMICAL RESISTANCE OF THE CURED PRODUCTS

Epoxy resin / KINGCURE I-934	100 / 50			100 / 60			100 / 70		
	1	7	30	1	7	30	1	7	30
Immersion time (days)									
Tap Water	0.3	0.8	1.6	0.3	0.9	1.7	0.4	1.1	2.1
5% solution of Salt	0.3	0.8	1.5	0.3	0.8	1.6	0.4	1.0	1.9
10% solution of Caustic soda	0.3	0.7	1.3	0.3	0.7	1.3	0.3	0.8	1.5
10% solution of Ammonia	0.3	0.8	1.7	0.3	0.9	1.8	0.4	1.1	2.1
5% solution of Sulfuric Acid	0.4	1.0	1.9	0.7	1.6	2.8	1.0	2.3	4.2
5% solution of Hydrochloric Acid	0.3	0.9	1.7	0.4	1.0	1.9	0.5	1.3	2.4
Kerocene	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	-0.1
Isopropylalcohol	0.0	0.2	0.4	0.0	0.2	0.5	0.0	0.2	0.6
Methyliso Ketone	2.0	6.1	15.6	0.6	1.9	3.6	0.4	1.3	2.6

6. DRYING CHARACTERISTICS

Epoxy resin / KINGCURE I-934			100 / 50	100 / 60	100 / 70
23°C	Set to touch	(hours)	4.9	3.9	4.3
	Tack free	(hours)	8.7	7.4	7.7
	Dry through	(hours)	12.4	10.7	11.5
10°C	Set to touch	(HOURS)	9.0	11.0	9.0
	Tack free	(HOURS)	25.0	23.0	22.0
	Dry through	(HOURS)	38.0	38.0	38.0