



SANHO CHEMICAL CO., LTD.

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KINGCURE I-621

KINGCURE I-621 is a modified cycloaliphatic diamine, based on isophorone chemistry. It is a slightly yellow liquid with a faint amine odor, KINGCURE I-621 can be used in all normal amine reactions, it is a slightly yellow product and has only limited solubility in water. The reactivity with epoxy resin is so high that no accelerator is required. The cure takes place at high atmospheric humidity at temperature down to 5°C and even under water °

1. SPECIFICATIONS

Appearance	: slightly yellow colored viscous liquid.
Viscosity (mPa·s /25°C)	: 1,500 ~ 2,500
Color (Grander)	: 6 Max.
Amine Value (JIS)	: 480±20
Specific Gravity (25 / 25°C)	: 1.02
AHEW	: 65

2. RECOMMENDED MIXING RATIO

30~40 Parts by weight to 100 parts of liquid epoxy resin whose epoxy equivalent weight is about 190.

3. CURING CHARACTERISTICS

Epoxy resin : Employed a liquid epoxy resin of bis-phenol A type whose EEW was about 190.

Total mass :100g

Room temp :24°C

Exothermic Reaction			
Mixing ratio = Epoxy resin/ I-621	100 / 40	100 / 35	100 / 30
Peak exothermic time (minutes)	21	26	32
Peak exothermic temp(°C)	192	189	180



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4. APPLICATIONS

KINGCURE I-621 has good compatibility with commonly used epoxy resins. It is cold-curing agent for solvent free epoxy resin systems and can be used in the following applications:

- a) Protective coating on concrete.
- b) Spontaneous spreading floor coating.
- c) Chemical and corrosion resistance coating.
- d) Coating on damp substrate.
- e) Construction on damp condition.
- f) Coal-tar combination coating.
- g) Can combine with other curing agent, accelerate the reaction of slow curing systems without other defects.

KINGCURE I-621 as curing agent can mix with the diluent epoxy and mix with high ratio of sand without reducing mechanical strength, chemical and solvent resistance strength.