



SANHO CHEMICAL CO., LTD.

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KINGCURE D-211

KINGCURE D-211 is a modified aliphatic polyamine curing agent designed for use with liquid epoxy resin to achieve cure at room temperature. Special features include low viscosity and high reactivity-it cures effectively down to at least 0 deg C which makes it particularly useful as an accelerator for polyamides, amidoamines, and other aliphatic amine types in the formulation of adhesives, coatings, and coal tar modified epoxy coatings applications.

Physical State: Amber liquid

Storage Life: At least 24 months from date of manufacture in original sealed container stored undercover at ambient temperature away from excessive heat and humidity.

| | | |
|---------------------|------------------------------|--------|
| Typical Properties: | Color (Gardner) | 12 Max |
| | Viscosity (mPa.s /25°C) | 50~150 |
| | Amine values, (JIS) | 780±40 |
| | Specific gravity(25/ 25°C) | 1.04 |
| | Flash point (°C ;closed cup) | 107 |
| | Equivalent weight per [H] | 42 |

Recommended usage: 15~ 35 parts per 100 parts of liquid epoxy resin
Having an epoxide equivalent weight of 190.

| | | |
|------------------------------|----------------------------------|-----------|
| Typical Handling Properties: | Gel time (100g mix at 23°C) | 5 Mins |
| | Thin film set time(25°C) | 1.8 Hours |
| | Peak exotherm (100g mix at 23°C) | 220 °C |
| | Time to peak exotherm | 8 Mins |

Typical Cure Schedule: (I)2-3days at 25°C
(II)Gel at ambient temperature plus 3 hours at 60degC.

| | | |
|---|------------------------------------|-------|
| Typical Performance: (following cure schedule(II) | Heat distortion temperature, deg C | 69 |
| | Bond strength (mild steel), N/mm2 | 20.5 |
| | Flexural strength, N/mm2 | 118 |
| | Tensile strength, N/mm2 | 102.5 |
| | Tensile modulus,KN/mm2 | 2.67 |
| | Elongation at break, % | 4.1 |

Chemical resistance: Excellent against mineral acids,dilute organic acids,water and aqueous salt solutions;good against alcohols and certain chlorinated hydrocarbons;moderate against aromatic hydrocarbons;poor against



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