



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 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) 1.05 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 ketones and glycol ethers.