



# SANHO CHEMICAL CO., LTD.

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## KINGCURE 451-P

KINGCURE 451-P is the modified activated aromatic amine curing agent for use with liquid epoxy resin. It has the features of middle viscosity and pot life long and heating after high H.D.T, The cured product with epoxy resin is further characteristic by the excellent water resistance and chemical resistance, especially to mineral acids, alkalis and organic acids. The principal applications : fiber glass casting encapsulation

### 1. SPECIFICATIONS

Appearance	: deep brown color liquid.
Viscosity (mPa · s /25°C)	: 3,000~8,000
Amine Value (JIS)	: 550 ± 30
Color ( Gardner )	: 18 Max.
Specific Gravity ( 25 / 25°C)	: 1.09
A.H.E.W.	: 50

### 2. RECOMMENDED MIXING RATIO

20~35 parts by weight to 100 parts of bisphenol-A liquid whose epoxy equivalent weight is about 190.

### 3. CURING CHARACTERISTICS

#### 3-1 Exothermic Reaction.

Epoxy resin	: bisphenol-A type liquid whose epoxy equivalent weight is about 190.
Total mass	: 100g
Room temperature	: 23°C

Epoxy resin / KINGCURE 451-P	80/20		
Peak exothermic time. (min.)	Semi-Gel		
Peak exothermic temp. (°C)	-		