



# SANHO CHEMICAL CO., LTD.

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## FUJICURE 205-L

FUJICURE 205-L is a modified cycloaliphatic amine intended for use as a room temperature curing agent for liquid epoxy resins. Special features of this curing agent include its low viscosity, light colour, good colour stability and high gloss.

### 1 SPECIFICATIONS

Appearance	: clear low viscosity, honey-colored liquid.
Viscosity	: 400 ~ 700 mPa·s (25°C)
Colour (Gardner)	: 18
Amine value	: 310±20
Specific gravity	: 40±2
Flash point	: 95
A.H.E.W.	: 125

### 2 RECOMMENDED MIXING RATIO

40~60 parts by weight to 100 parts of liquid epoxy resin whose epoxy equivalent weight is about 190.

### 3 CURING CHARACTERISTICS

#### (1) Exothermic reaction

Epoxy resin	: employed bisphenol-a type epoxy resins whose EEW 190.
Total mass	: 100g
Room temperature	: 23°C

Epoxy resin / FUJICURE 205-L	100 / 40	100/50	100/60
Peak exothermic time (min.)	26	21	20
Peak exothermic temp.(°C)	169	187	184
Gel time	18	15	14

#### (2) Drying characteristics

The drying characteristics of the coated films of the mixed resin of 205-L and the epoxy resin as employed above were measured by RCI drying recorder, as follows;

Epoxy resin / FUJICURE 205-L		100 / 40	100 / 50	100 / 60
23°C	Set to touch (hours)	1.7	1.4	1.3
	Tack free (hours)	3.4	2.9	2.7
	Dry through (hours)	5.2	4.2	3.9
5°C	Set to touch (hours)	2.8	2.4	2.9
	Tack free (hours)	9.0	8.0	7.8
	Dry through (hours)	19.0	16.8	15.4

©film thickness about 150 μm, at 23°C and 5°C



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## 4 MECHANICAL / PHYSICAL PROPERTIES

The mechanical properties of the cured products of the FUJICURE 205-Land the same epoxy resin as employed above were measured as follow;

Epoxy resin / FUJICURE FXD-822	100 / 40	100 / 50	100 / 60
Tensile strength (kgf/mm <sup>2</sup> )	4.4	4.6	4.4
Flexural strength (kgf/mm <sup>2</sup> )	9.0	10.9	10.8
Flexural modulus (kgf/mm <sup>2</sup> )	4.4×10 <sup>2</sup>	4.4×10 <sup>2</sup>	4.4×10 <sup>2</sup>
Compressive strength (kgf/mm <sup>2</sup> )	10 <sup>2</sup>	9.6	9.6
Izod impact strength (kgf/cm-cm)	10.7	2.9	3.5
Rockwell hardness (m-scale)	2.8	71	68
Shore-d hardness	75	85	84
Heat distortion temp (°C)	85	52	51
	50		

## 5 CHEMICAL RESISTANCE

Percentage increase in weight of the cured products of FUJICURE 205-Land the same epoxy resin as employed above were measured as follow after being cured at 22~23°C for 7 days, and immersing into respective chemical substances.

unit:%

Epoxy Resin / 205-L	100 / 40			100 / 50			100 / 60		
Immersing time (days)	1	7	30	1	7	30	1	7	30
Tap water (23°C)	0.1	0.4	0.8	0.1	0.4	0.8	0.1	0.4	1.0
Tap water (40°C)	0.4	0.8	1.2	0.4	1.0	1.4	0.5	1.3	1.5
5% salt solution	0.1	0.3	0.7	0.1	0.4	0.8	0.1	0.4	0.9
10% caustic soda solution	0.1	0.3	0.6	0.1	0.3	0.7	0.1	0.3	0.8
10% ammonia solution	0.2	0.6	1.1	0.3	0.7	1.5	0.3	0.9	1.9
5% sulfuric acid solution	0.1	0.4	0.8	0.1	0.4	0.8	0.1	0.5	1.0
5% hydrochloric acid solution	0.1	0.3	0.7	0.1	0.4	0.9	0.2	0.5	1.1
Kerosene	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1
Isopropanol	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3
MIBK	3.2	8.8	15	1.6	5.4	5.4	1.3	3.1	5.7

## 6. APPLICATIONS

- (1) Solvent free and high solids coatings.
- (2) Self leveling floors and mortars.
- (3) Water-wipeable tile grouts and lamination.
- (4) Reinforced coatings and gel coats.