



SANHO CHEMICAL CO., LTD.

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FUJICURE 5250

FUJICURE 5250 is modified cycloaliphatic polyamine with superior curing at low temperature..
FUJICURE 5250 has good compatibility with epoxy resins. The cured product has superior water resistance and chemical resistance. It is a coating with excellent gloss.

1. SPECIFICATIONS

Appearance	: Light brown color viscous liquid
Viscosity (mPa · s/ 25°C)	: 6,000~14,000
Amine Value(JIS)	: 270 ± 10
Color (Gardner)	: 4 Max
Specific Gravity (25/25°C)	: 1.10
Flash Point (°C)	: 120°C
A.H.E.W	: 140

2. RECOMMENDED MIXING RATIO

60~80 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 / FUJICURE 5250	100 / 53	100 / 66	100 / 81
Peak exothermic time. (min.)	20	18	17
Peak exothermic temp. (°C)	144	153	153
Gel time (min.)	15	13	12



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3-2 Drying Characteristics

Epoxy resin : bisphenol-A type liquid whose epoxy equivalent weight is about 190.

By RCI Drying Recorder : At 23°C and 5°C

Epoxy resin / FUJICURE 5250		100 / 53	100 / 66	100 / 81
23°C	Set to touch (hours)	0.7	0.7	0.8
	Tack free (hours)	1.8	1.7	1.8
	Dry through (hours)	3.2	2.8	3.2
5°C	Set to touch (hours)	2.2	1.6	1.6
	Tack free (hours)	7.6	6.2	6.2
	Dry through (hours)	19.7	14.6	14.5

©Film thickness about 150um

4. MECHANICAL PROPERTIES

Epoxy resin : bisphenol-A type liquid whose epoxy equivalent weight is about 190.

Preured at 23°C for one day After this cured at 80°C for 2 hours

Epoxy resin / FUJICURE 5250		100 / 53	100 / 66	100 / 81
Tensile Strength (kgf/mm ²)		4.0	6.6	6.0
Bending Strength (kgf/mm ²)		4.4	8.6	7.8
Flexural Modulus (kgf/mm ²)		2.1×10 ²	3.2×10 ²	3.1×10 ²
Compressive strength (kgf/mm ²)		4.9	7.3	6.5
Izod Impact Strength (kgf/cm-cm)		1.9	2.4	2.7
Rockwell Hardness (m-scale)		49	54	19
Shore D.		23 >	43	40
Heat Distortion Temp (°C)		80	82	82

5. CHEMICAL RESISTANCE

Epoxy resin : bisphenol-A type liquid whose epoxy equivalent weight is about 190

Preured at 23°C for one day After this cured at 80°C for 2 hours

Measured the weight change of the cured products after immersing them into following chemical substrates



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Unit : %

Epoxy Resin / F-5250	100 / 53			100 / 66			100 / 81		
	1	7	30	1	7	30	1	7	30
Tap water	0.2	0.4	0.7	0.1	0.3	0.7	0.2	0.3	0.7
5% salt water solution	0.1	0.3	0.6	0.1	0.3	0.7	0.1	0.3	0.7
10% caustic soda solution	0.1	0.2	0.5	0.1	0.2	0.5	0.1	0.2	0.5
10% ammonia solution	0.2	0.4	1.0	0.2	0.5	1.1	0.2	0.5	1.2
5% sulfuric acid solution	0.1	0.3	0.7	0.1	0.4	0.9	0.2	0.5	1.1
5% hydrochloric acid solution	0.1	0.3	0.6	0.1	0.3	0.7	0.1	0.4	0.9
Kerosene	0.3	-0.1	-0.1	0.0	-0.1	-0.1	0.0	-0.1	-0.2
Isopropanol	0.1	0.4	0.8	0.0	0.2	0.5	0.0	0.2	0.6
Methyl isobutyl ketone	4.9	broken	broken	0.8	3.8	5.3	0.2	1.3	3.5

6. HANDLING (SAFETY) PRECAUTIONS

Since FUJICURE 5250 is a modified-amine curing agent, it should be handled with normal care.

Avoid direct contact with any parts of human body in the case of eye or skin contamination with 5250, the affected part must be first washed thoroughly with plenty of water and soap.

In the case of eye contact, consult a physician afterwards. Keep the container tightly. Seal and store in a cool and dry place away from open flames.

7. IMPORTANT NOTICE

All statement technical information, data and recommendations contained in the catalogue are based on tests we believe to be reliable but those are not to be taken as any form of our guar-antes for specific properties of our product, nor for any particular applications.

Further study of individual user is requested in the actual usage. User shall determine the suitability of the product for his intended use before using.