



SANHO CHEMICAL CO., LTD.

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FUJICURE 5300

FUJICURE 5300 is low viscosity type epoxy curing agent of modified cycloaliphatic polyamine. This curing agent has good compatibility with epoxy resins and coal tar. The curing and shaping of FUJICURE 5300 are excellent in high humidity or on the surface of the humid. The applications of FUJICURE 5300 include self-leveling coatings. It is also applied for adhesives, and castings.

1. SPECIFICATIONS

Appearance	: Light yellow color, viscous liquid.
Viscosity (25°C)	: 800~1700 mPa · s
Color (Gardner)	: 9 Max .
Amine Value	: 395 ± 20
Specific Gravity	: 1.02 (25 / 25°C)
Flash Point	: 135°C
A.H.E.W.	: 95

2. RECOMMENDED MIXING RATIO

45~65 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 5300	100 / 43	100 / 53	100 / 66
Peak exothermic time. (min.)	75	61	56
Peak exothermic temp. (°C)	165	181	173
Gel time (min.)	63	55	51



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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 / F-5300		100 / 43	100 / 53	100 / 66
23°C	Set to touch (hours)	3.2	2.9	2.4
	Tack free (hours)	5.2	4.6	4.6
	Dry through (hours)	8.4	6.9	6.2
5°C	Set to touch (hours)	2.3	2.3	2.3
	Tack free (hours)	19.2	17.4	16.5
	Dry through (hours)	32.3	33.0	29.7

◎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 / F-5300		100 / 43	100 / 53	100 / 66
Tensile Strength	(kgf/mm ²)	5.5	5.3	6.1
Bending Strength	(kgf/mm ²)	7.9	8.4	9.5
Flexural Modulus	(kgf/mm ²)	3.4×10 ²	3.4×10 ²	3.3×10 ²
Compressive strength	(kgf/mm ²)	9.8	9.6	9.1
Izod Impact Strength	(kgf/cm-cm)	1.8	2.0	1.9
Rockwell Hardness	(m-scale)	74	70	70
. Heat Distortion	(°C)	52	54	53
Shore D		82	82	81

5. CHEMICAL RESISTANCE

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

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



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Unit : %

Epoxy Resin / F-5300	100 / 43			100 / 53			100 / 66		
	1	7	30	1	7	30	1	7	30
Tap water	0.1	0.3	0.8	0.1	0.4	0.9	0.1	0.4	1.0
5% salt water solution	0.1	0.3	0.9	0.1	0.3	1.0	0.1	0.3	0.9
10% caustic soda solution	0.1	0.3	0.8	0.1	0.3	0.9	0.1	0.2	0.8
10% ammonia solution	0.1	0.3	0.9	0.2	0.4	1.0	0.2	0.4	1.1
5% sulfuric acid solution	0.5	0.8	1.6	1.9	3.4	4.8	5.8	13	25
5% hydrochloric acid solution	0.2	0.5	1.3	0.8	2.0	3.6	1.1	6.1	13
Kerosene	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0
Isopropanol	0.6	1.0	1.5	0.7	1.0	1.8	1.0	2.1	4.4
Methyl isobutyl ketone	13	23	broken	9.3	14	20	7.5	14	28

6. HANDLING (SAFETY) PRECAUTIONS

Since FUJICURE 5300 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 FUJICURE 5300, 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.