



SANHO CHEMICAL CO., LTD.

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FUJICURE FXD-821

FUJICURE FXD-821 is a room-temperature epoxy resins curing agent. This modified aliphatic amine hardener is low viscosity and light in colour surface. Major applications of this FXD-821 include various types of surface coatings, self-leveling floors, resin mortars, adhesives, and casting.

1. SALES SPECIFICATION

Appearance	: Light yellow, Low viscosity liquid.
Viscosity (mPa · s 25°C)	: 50 ~ 70
Colour (Gardner)	: 3 Max.
Amine Value (JIS)	: 305 ↑ 10
Specific Gravity (25 / 25°C)	: 0.99
Flash point (°C)	: 118
A.H.E.W.	: 144

2. RECOMMENDED MIXING RATIO

40 ~ 50 parts by weight to 100 parts of Bisphenol-A type epoxy resin whose epoxy equivalent weight is about 190.

3. CURING CHARACTERISTICS

3-1 Epoxy resin : Employed Bisphenol-A type epoxy resin whose epoxy equivalent weight is about 190.

Total mass : 100 gram

Room Temperature : 23°C

Epoxy resin / FUJICURE FXD-821	100 / 50	100 / 45	100 / 40
Peak Exothermic Time (min.)	119	129	145
Peak Exothermic Temperature (°C)	126	113	88
Gelling Time (min.)	93	100	108



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3-2 Drying characteristics

The drying characteristics of the coated films of the mixtured resin of FXD-821 and the epoxy resin as employed above were measured by RCI drying recorder, as follow;

Epoxy resin / FUJICURE FXD-821		100 / 50	100 / 45	100 / 40
23°C	Dry through (hours)	18.2	17.8	18.2

◎film thickness about 150 μm, at 23°C

4. MECHANICAL/PHYSICAL PROPERTIES

Employed Bisphenol-A type epoxy resin whose epoxy equivalent weight is about 190.

Curing time=7 days at 23°C

Epoxy resin / FUJICURE FXD-821		100 / 50	100 / 45	100 / 40
Tensile Strength	(kgf/mm ²)	6.5	6.1	6.0
Flexural Strength	(kgf/mm ²)	10.1	10.4	9.9
Flexural Modulus	(kgf/mm ²)	3.8×10 ²	3.7×10 ²	3.7×10 ²
Compressive Strength	(kgf/mm ²)	10.1	10.1	10.3
Izod Impact Strength	(kgf-cm/cm)	3.1	2.6	2.6
Rockwell Hardness	(M Scale)	60	64.5	61.5
Heat Distrotion Temperature	(°C)	46	45.5	43

5. CHEMICAL RESISTANCE OF THE CURED PRODUCTS

Percentage increase in weight of the cured products of FUJICURE FXD-821 and 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 substance.. UNIT : %

Epoxy resin / FXD-821	100 / 50			100 / 45			100 / 40		
	1	7	30	1	7	30	1	7	30
Tap Water	0.2	0.5	1.2	0.2	0.5	1.1	0.2	0.4	1.0
5% solution of Salt	0.2	0.5	1.1	0.2	0.5	1.0	0.2	0.4	0.9
10% solution of Caustin soda	0.1	0.4	0.8	0.1	0.3	0.7	0.1	0.3	0.7
10% solution of Ammonia	0.2	0.5	1.1	0.2	0.4	1.0	0.3	0.6	1.1
5% solution of Surfruic Acid	2.5	4.7	8.2	1.1	2.0	3.5	0.4	0.9	1.8
5% solution of Hydrochloric Acid	0.8	1.5	2.8	0.3	0.8	1.6	0.3	0.6	1.1
Kerocene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Isopropylalcohol	1.9	4.0	7.5	1.6	3.6	7.1	1.6	3.9	8.2
Metyliso butylietone	9.7	C	-	-	C	-	-	C	-



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6. HANDLING (SAFETY) PRECAUTIONS

Since FUJICURE FXD-821 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 FXD-821, 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 sealed 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.