



SANHO CHEMICAL CO., LTD.

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FUJICURE 5420

FUJICURE 5420 is a low viscosity and fast cure type epoxy curing agent of modified aliphatic polyamines. Special features of this curing agent include giving excellent surfaces and good mechanical properties under conditions of high humidity .the application of this curing agent includes old to new concrete adhesive ,casting ,potting ,self-levelling floors and specially intended for working condition which needs low viscosity and fast cure.

1. SPECIFICATIONS

Appearance	: Light yellow colour low viscous liquid
Viscosity (mPa · s/25°C)	: 200 ~ 500
Amine Value (JIS)	: 450±15
Color (Gardner)	: 6 Max
Specific Gravity (25 / 25°C)	: 1.07
Flash Point (°C)	: 138°C
A.H.E.W.	: 80

2. RECOMMENDED MIXING RATIO

30~50 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 5420	100 / 33	100 / 43	100 / 53
Peak exothermic time. (min.)	24	19	18
Peak exothermic temp. (°C)	207	204	192
Gel time (min.)	17	15	14

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



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Epoxy resin / FUJICURE 5420			100 / 33	100 / 43	100 / 53
23°C	Set to touch	(hours)	1.2	1.2	1.2
	Tack free	(hours)	2.7	2.4	2.3
	Dry through	(hours)	4.5	3.5	3.0
5°C	Set to touch	(hours)	3.8	3.8	3.8
	Tack free	(hours)	9.0	7.6	7.8
	Dry through	(hours)	13.0	12.0	11.0

©Film thickness about 150um 4.1

4. MECHANICAL PROPERTIES

Epoxy resin : bisphenol-A type liquid whose epoxy equivalent weight is about 190.
 Precured at 23°C for one day After this cured at 80°C for 2 hours

Epoxy resin / FUJICURE 5420		100 / 33	100 / 43	100 / 53
Tensile Strength	(kgf/mm ²)	6.2	7.3	7.7
Bending Strength	(kgf/mm ²)	9.1	10.5	10.1
Flexural Modulus	(kgf/mm ²)	4.2×10 ²	4.1×10 ²	4.0×10 ²
Compressive strength	(kgf/mm ²)	12.3	11.9	11.7
Izod Impact Strength	(kgf/cm-cm)	2.4	2.9	3.0
Rockwell Hardness	(m-scale)	86	85	83
Shore D.		50	50	51
Heat Distortion Temp	(°C)	85	86	85

5. CHEMICAL RESISTANCE

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

Unit : %

Epoxy Resin / F 5420	100 / 33			100 / 43			100 / 53		
	1	7	30	1	7	30	1	7	30
Immersing time (days)									
Tap water (23°C)	0.1	0.3	0.8	0.1	0.3	0.7	0.1	0.3	0.8
Tap water (40°C)	0.3	1.1	1.5	0.3	1.1	1.8	0.4	1.5	2.3
5% salt water solution	0.1	0.3	0.7	0.1	0.3	0.7	0.1	0.4	0.8
10% caustic soda solution	0.1	0.2	0.6	0.1	0.3	0.7	0.1	0.3	0.7
10% ammonia solution	0.1	0.3	0.8	0.1	0.5	1.1	0.2	0.6	1.1
5% sulfuric acid solution	0.2	0.4	0.9	0.4	0.9	1.9	0.7	1.9	3.8
5% hydrochloric acid solution	0.2	0.4	0.9	0.2	0.6	1.2	0.4	1.1	2.4
Kerosene	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Isopropanol	0.0	0.0	0.2	-0.1	0.0	0.1	0.0	0.0	0.2
Methyl isobutyl ketone	5.2	11	16	1.1	3.2	5.2	0.1	1.5	4.9

