



SANHO CHEMICAL CO., LTD.

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KINGCURE XD-230I

KINGCURE XD-230I is a low viscosity, rapid room temperature curing agent for epoxide resins. It has been designed for use in solvent less coatings, leveling floorings, and floor patching repairment.

1. SPECIFICATIONS

Appearance	: low viscosity, light yellow liquid
Viscosity (mPa · s /25°C)	: 150 ~ 250
Amine Value (JIS)	: 350± 15
Color (Gardner)	: 5 Max.
Specific Gravity(25 / 25°C)	: 1.11
A.H.E.W.	: 84

2. RECOMMENDED MIXING RATIO

35~55parts 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 / KINGCURE XD-230I	100 / 35	100 / 45	100 / 55
Peak exothermic time. (min.)	56	44	37
Peak exothermic temp. (°C)	131	161	169

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 / K XD-230I		100 / 35	100 / 45	100 / 55
Set to touch	(hours)			
Tack free	(hours)			
Dry through	(hours)			

©Film thickness about 150um

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 / KINGCURE XD-230I		100 / 35	100 / 45	100 / 55
Tensile Strength	(kgf/mm ²)	4.2	6.7	6.9
Bending Strength	(kgf/mm ²)	5.1	8.6	9.5
Flexural Modulus	(kgf/mm ²)	2.1×10 ²	2.9×10 ²	3.2×10 ²
Compressive strength	(kgf/mm ²)	7.2	9.6	10.1
Izod Impact Strength	(kgf/cm-cm)	2.0	2.8	3.1
Rockwell Hardness	(m-scale)	39	78	76
Heat Distortion Temp	(°C)	34	42	45

5. LAP SHEAR STRENGTH

EPOXY RESIN / KINGCURE XD-230I	100 / 35	100 / 45	100 / 55
LAP SHEAR STRENGTH (kgf/cm ²)	1.6	1.1	1.1

6. 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



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Unit : %

Epoxy Resin / K XD-230I	100 / 35			100 / 45			100 / 55		
	1	7	30	1	7	30	1	7	30
Tap water (23°C)									
Tap water (40°C)	0.3	0.5		0.3	0.4		0.4	0.4	
5% salt water solution	0.3	0.4		0.3	0.4		0.3	0.4	
10% caustic soda solution	0.1	0.3		0.1	0.3		0.1	0.3	
10% ammonia solution	0.2	0.5		0.2	0.5		0.2	0.6	
5% sulfuric acid solution	0.2	0.5		0.3	0.7		0.6	1.2	
5% hydrochloric acid solution	0.2	0.4		0.2	0.5		0.2	0.7	
Kerosene	0.0	0.1		0.0	0.0		0.0	0.0	
Isopropanol	0.0	0.2		0.0	0.0		0.0	0.1	
Methyl isobutyl ketone	7.2	-		1.4	5.4		0.2	1.3	

7. HANDLING (SAFETY) PRECAUTIONS

Since KINGCURE XD-230I 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 XD-230I, 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.

8. 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.