

BOND-AI-2055, 2016, 2014

SUPER ROOM TEMPERATURE EPOXY COMPOUND

AI-2055 (Fast curing medium viscous)

AI-2016 (Medium curing low viscous)

AI-2014 (Slow curing high viscous)

Super power room temperature curing modified system are a specially developed for Grouting, Bonding, Coating, Insulating, mortaring, etc like high speed armature insulations electric motor insulation, coating on coil, transformers, starters, other coating applications and specially potting, encapsulating, bonding, priming, and mortaring applications. and from special quality Epoxy Resin and Modified Coal Tar with special ingredients. for Potting, Encapsulating, Tooling, high build coating, adhesive, mastic and mortaring application. The hardener for curing of epoxies are used like polyamide, polyamines and polyamidoamines for different application and required properties and curing time.

A versatile system are success of their following properties:-

*Excellent adhesion to many materials * Excellent resistance to chemicals, heat and moisture

* negligible shrinkage * good mechanical and electrical properties.

SURFACE PREPARATION:- Surface should be Dry, clean, even and free from dust, dirt, paint, rust, Algee, grease, soluble salt, or other contaminations . For cleaning use hand or power tools and cleaning chemicals / paint remover and then use rust remover or sand blasting wherever required

SPECIFICATIONS

No.	Properties	Unit	PART-A	PART-B 2055	PART-B 2016	PART-B 2014
1	Color		Transparent viscous liquid	Yellow low viscous liquid	Brown Liquid Medium viscous	Brown Liquid High viscous liquid
2	Viscosity at 25oC	Poise	40-100	1-2	4-6	75-150
3	% Solid		98 +-2%	98 +-2%	98 +-2%	98 +-2%
4	Density at 25oC	G/cm3	1.0 +-1%	98 +-2%	98 +-2%	98 +-2%
5	Mixing ratio A:B	pbw	100	8-10	25-50	25-50
6	Method of applications			By brush , Spray, Roller		

7	Coverage			0.25 kg/ m2 for one coat approx. 0.15 mm thickness	0.25 kg/ m2 for one coat approx. 0.15 mm thickness	0.25 kg/ m2 for one coat approx. 0.15 mm thickness
8	Pot Life at 30 oC	Minutes		20-25	30-45	45-60
9	Curing Time at R.T.	Hours		24-48		
10	Hard Cure Time	Days		7 Days		
10	Finish after curing			Smooth shining		
11	Shelf life in sealed container at 25 oC. Temp.	Months		6-12	6-12	6-12
12	Packing	Kg		30, 50, 240 Kg CRB & Drum	30, 50, 200 Kg CRB & Drum	10, 30, 50, 200 Kg CRB & Drum

Special note:- The curing schedule and properties are completely depends on method of application, quantity of mix, ratio of the systems and temperature of the weather.

APPLICATIONS:-

1. Potting, Encapsulating and Insulation:- For Electric and Electronic components, current and Voltage transformer, Post type insulators, bushings, Impregnation of GRP parts , High voltage chokes coils, Generator and other parts, etc.

2. Protective coatings:- corrosion protection of metal and concrete. **3. Industrial Heavy duty Floorings:-** For requirement of highly impact resistance, chemical resistance and maintenance and dust free properties. **4. Sealing of cracks:-** Sealing of crack by pressure grouting for waterproofing and improve the strength of structure.

The above system must be mixed shortly before use. Apply direct heat to accelerate setting.

PROPERTIES AFTER 7 DAYS CURING in ratio(A:B) = 100:40 AT 25oC

No.	TEST	Unit	Properties
1	Hardness	Shore D	80-90
2	Temperature Rang	oC	-40 -130
3	Volume resistance DC500V	$\Omega \cdot \text{cm}$	Under test
4	Flame resistance, UL 94		Under test

5	Shrinkage	cm	0.0008
6	Dielectric strength,	KV/mm,25°C	>20
7	Heat Distortion Temp. (Marten's)	oC	50
8	Water absorption	24h, 25°C %	<0.28
9	10% H2SO4, 10%Hcl, 10% NaoH	7 Day Immersion at R.T.	Not effected

The information contained here in is reliable and accurate to the best of our knowledge. However conditions of use and method of applications are beyond our control, no warranty is expressed or implied.

TECHNICAL SERVICES & Technical assistance

Information is available by calling the Mr Bond Technical Service at:

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