



## **BOND EPOXY SYSTEMS**

### **EPOXY RESIN FOR STRUCTURAL REPAIRS**

Epoxy resin based **versatile system are success** because Negligible shrinkage, easy flow, Good mechanical and electrical properties, and non corrosive, Excellent adhesion to many construction materials, such as concrete and steel, cure in moist conditions, chemical and corrosion resistance , Excellent resistance to chemicals, heat and moisture, Quick strength within 3 days. Longer life of foundation.

**WHERE TO USE:-** For civil engineering applications like Injection Injection Grouting, Structural repairs and rehabilitation. Columns of Bridge , Dam, Canal, Tunnel, Tank, sump, load bearing structures of Buildings, Tower structures, Marine structures, power house, industrial flooring, etc. , protect from chemicals attack, Weather protection, Repairs Heavy Foundation , Bonding old to new concrete, Repairs to Air field runways, etc.

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

**METHOD OF USE:-** (1) Apply first primer thin coat on clean & dry surface (2) Apply mortar over primer coat wherever required. And allow it to cure for 72 hours. If required fast setting give heat to epoxy as per instruction of manufacturer.

PRO. CODE	STST-2314		STST-5014			STST-6014	
RESIN	ER-230		ER-5022			EC-606	
HARDENER	PR-140	PR-140		PR-140 (LV)	PR-140 (LV)	PR-140(LV)	PR-140
DILUENT /Quartz S AND	Quartz SAND	PGE		Quartz SAND			
Mixing ratio pbw A+B+C+D	100:50:450	100:50:10	100:55	100:55:850	100:55	100:25	100:25
<b>POT LIFE</b>							
25 oC Minuts	135	75	75	120	65	120	40
40oC Minuts	45	35	30	40	23	45	28
<b>Viscosity Initial</b>							
20 oc mPa.s		1950	1700		11500	31500	11800
40oC mPa.s		680	480		2200	900	3650
<b>Cure Time</b>							
20oC Hrs	24-49	24-49	24-49	24-49	24	24-49	24-49
40oC Hrs	26-24	26-24	26-24	26-24	16	26-24	26-24

PROPERTIES OF	CURED		COMPOUN D				
<b>Compressive strength</b> Mpa	72	34	130	81	100	66	99.3
<b>Flexural Strength</b> Mpa	23	20	75	26.5	77	41	58
<b>Tensile strength</b> Mpa	15	9.2	43	14	40	16.3	33.1

<b>Impact strength (Unnotched) kJ/m<sup>2</sup></b>	2.2	25	12.6	2.2	13	13.9	7.31
<b>Water absorption mg</b>	27	23	14	20.90	22	37.9	29.9
<b>Density at 25 oC g/cm<sup>2</sup></b>	1.77	1.1	1.12	1.9	1.12	1.44	1.42
<b>Hardness shore D</b>	82	70	77	82	75	72	78
<b>Adhesive strength M.S. to M.S. (4 sq. cm. joint area)</b>		13.3	9.6		15.1	10.9	12.1
<b>Tensile Mpa</b>		11.0	8.8		13.1	9.3	9.4
<b>Shear Mpa</b>							
<b>STORAGE LIFE Months</b>	12	12	12	12	12	12	12
<b>PACKING Kg.</b>	A-(1,5,50)B-(1,5,50) Carboys C-(50) Bag	A-(1,5,50)B-(1,5,50) Carboys C--(1,5,50) Carboys	A-(1,5,50)B-(1,5,50)Carboys	A-(1,5,50)B-(1,5,50) Carboys C-(50) Bag	A-(1,5,50)B-(1,5,50) Carboys C--(1,5,50) Carboys	A-(1,5,50)B-(1,5,50) Carboys C--(1,5,50) Carboys	A-(1,5,50)B-(1,5,50) Carboys C--(1,5,50) Carboys

The information contain here in is reliable and accurate the best of our knowledge. Technical services will provided for guidance when required. However conditions of uses and methods of application are beyond our control, no warranty is expressed or implied.

ALSO AVAILABLE CONSTRUCTION CHEMICALS LIKE CEMENT ADDITIVES, WATERPROOFING COATINGS,WATER REPPALENTS, CHEMICALS & ABRASION RESISTANCE FLOORINGS MATERIALS, EPOXY-POLYURETHANE RESINS, GOUTING MATERIALS, ANTI CORROSIVE PAINTS, FACADE PAINTS, SEALENTS AND ADHESIVES, RETRO REINFORCING REHABILITATION MATERIALS. FOR BUILDING, BRIDGE, DAM, CANAL, TUNNEL AND MARINE STRUCTURES, ETC



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