



## Epoxy Resin pressure grouting systems/

Super power room temperature curing low viscous modified system are a specially developed from Bisphenol and Epichlorohydrin for Pressure grouting, solvent less coating, Bonding, adhesive and mortaring application. The hardener for curing of epoxies are used like polyamide, polyamines and polyamidoamines and phenalkamine 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. Penetrating even micro cracks and seals pores even.

### SPECIFICATIONS

No.	Properties	Unit	H-555 Polyamines	PR-160 Polyamide	PR-160 Phenalkamine
1	Color of mixture		St. Pale yellow liquid	Pale yellow liquid	Dark Brown liquid
2	Mixing ratio with part-A		100: 5-8 pbv	100: 50 pbv	100: 50 pbv
3	Mix Viscosity at 25oC	Poise	4-6	6-10	6-10
4	Density at 25oC of mix	G/cm	0.99-1.0	0.98-0.99	0.98-0.99
6	Shelf life of separate Part-A & B	Months	12-24	12-24	12-24

**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. **Pressure grouting:-** in to the cracks and crevices for Civil engineering structures like Bridge, Building, Dam, Canal, tunnel, 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. Grouting for Machine Foundation, Bridges, Dam:-** For the strengthening and leakage stopping etc. **5. Sealing of cracks and bonding of old and new concrete and for waterproofing:** - Sealing of crack by pressure grouting for waterproofing and improve the strength of structure. Bond for old

**PROPERTIES AFTER 7 DAYS CURING with PR-140 in ratio(A:B) = 2:1 AT 25oC**

No.	TEST	Unit	Self leveling	Screed	Crack Grouting
1	Compressive strength	Kg/Sq.cm.	600-900	650-900	700-1000
2	Split tensile strength	Kg/Sq.cm.	100-130	100-130	350-400 Tensile Strength
3	Flexural strength	Kg/Sq.cm.	450-550	300-400	500-800
4	Impact Strength	Kg/Sq.cm.		0.8-1.2	
5	Shrinkage	cm	0.0008	0.0008	
6	Bond strength	Kg/Sq.cm.	75-100	75-100	
7	Shear strength	Kg/Sq.cm.	75-100	75-100	
8	Module of elasticity in tension				2000-2200
9	Bond strength (Al-AL)				500-800

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:

Email:- [Costomercare@mrbond.org](mailto:Costomercare@mrbond.org)



**MR. BOND POLYCHEM**

111, Shivam Complex, Science city road, Sola, Ahmedabad-60 (Guj) India  
 mail: [jbond009@yahoo.co.in](mailto:jbond009@yahoo.co.in) / [info@mrbond.co.in](mailto:info@mrbond.co.in) / [contact@mrbond.co.in](mailto:contact@mrbond.co.in)  
 web: [www.mrbond.co.in](http://www.mrbond.co.in) / [www.mrbond.org](http://www.mrbond.org)  
 M- 94094 57994 / 93279 24007 Ph: 079-2777 4269



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