



ARMSTRONG CHEMICALS PVT. LTD.,  
Bengaluru  
An ISO 9001 Certified Company

**RAPIDSTRONG<sup>®</sup> EPG 2**

**High performance, Two component Thixotropic Epoxy Adhesive  
for High Structural Bonding for exposed RCC**

### DESCRIPTION OF THE PRODUCT :

**RAPIDSTRONG EPG 2** is a Two parts solvent free thixotropic epoxy adhesive for High Structural Bonding for repair mortar/ concrete based on epoxy resins, added with fine-grain aggregates and special additives for concrete repairs to exposed surfaces.

Specially designed for repairs and rehabilitation of structures like columns, beams & slabs to provide High Strength, High modulus - resistance to high temperature and impacts loads.

### RECOMMENDED :

- Repairs to Exposed surfaces in RCC Structures like Beams, Columns & Slabs.

### ADVANTAGES :

- ✳ Excellent load bearing Property of repaired concrete with high resistance to deformation under loads.
- ✳ Excellent bonding strength even in thin sections, Concrete to Concrete, steel plates, metal to Concrete.
- ✳ Excellent Bonding for fiber reinforced concrete slab & bridges.
- ✳ Exhibits special property to resist high temperature and impact loads.
- ✳ Non-flexible rigid bonding of pre-cast concrete elements

### TECHNICAL PROPERTIES :

1	Mixing Ratio	Part 1: part 2 (4:1)
2	Consistency of mixing	Thick paste
3	Mass Density of mix (kg/m <sup>3</sup> )	1600
4	Viscosity (mpas)	800 000 (f shaft-rev,5)
5	Bonding strength concrete- steel	>3 N/mm <sup>2</sup>
6	Bonding strength Concrete-Carboplate	>3 N/mm <sup>2</sup>
7	Flexible Strength (ISO 178)	40N/mm <sup>2</sup>
8	Compressive strength (ASTM D 695)	80 N/mm <sup>2</sup>
9	Tensile Strength (ASTM D 638)	30 N/mm <sup>2</sup>
10	Modulus of elasticity under Compressive	8000

### SURFACE PREPARATIONS :

It is highly important to see that the surface which is going to receive the RAPIDSTRONG EPG 2 concrete / mortar must be in a sound clean and dry condition in order that maximum bond strength is achieved between the substrate and repair concrete.

Thorough mechanical cleaning is strongly recommended to clean the surface from oil, grease, corrosion deposits, algae if any, loose particles, De-bonded materials must be chipped off until to achieve the sound substrate of concrete and all the laitance shall be removed by scrubbing and oil, grease, fungus shall be removed by detergent scrubbing, if required acid etching should be used

### DIRECTIONS :

The Two parts RAPIDSTRONG EPG 2 must be mixed together in 4: 1 ratio pour **Part - 2** 200 Gms. into **Part -1** 800 Gms. and mix at a slow speed with drill fixed with agitator until a uniform paste is obtained. The product is already pre-dosed. To avoid incomplete hardening of RAPIDSTRONG EPG 2 do not use partial quantities. When partial quantities are necessary, use a precision electronic scale the entire contents of hardener tin should be poured in to the base container and mixed for 3 minutes thoroughly until to get a homogeneous mix.

### APPLICATION :

To obtained Excellent Bonding, it is recommended to spread the Adhesive on the surface that need bonding and let the product penetrate well, especially on irregular surfaces.

After applying the Adhesive, in the area that need bonding and keep firm until the adhesive has completely hardened. The sufficient thickness to obtain an excellent bonding strength is approximately 1-2 mm. Because of the excellent thixotropic property, **RAPIDSTRONG EPG 2** can be also applied vertically or on ceilings without slipping. The environmental temperature has an effect on the hardening time of the two products. At +23°C **RAPIDSTRONG EPG 2** remains workable for 60 minutes. After this time, the product begin the hardening process. must be applied within the useful pot life time. It is therefore useful to plan the work within the time limit mentioned above.

**PACKING :** 10 & 20 Kgs.

**SHELF LIFE :** 12 months from the date of manufacturing.

Whilst **ARMSTRONG CHEMICALS PVT. LTD.** strives to ensure that any advice, information or recommendation given are appropriate and correct. It cannot accept any liability directly or indirectly arising out of the use of products since the method and place of application of the products are beyond its control.



**Manufacturers :**

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36/1, G-5, New International Airport Road, Ganga Nagar, BENGALURU - 560 032.  
**Regd. Office :** 36/1, G-5, New International Airport Road, Ganga Nagar, BENGALURU - 560 032.  
**e-mail :** armstrongchemicals@gmail.com; **Web :** www.acpl.live | www.armstrongchemicals.in

Please Contact for Customer Care Information : **08095621122** Toll Free No. **1800 103 2034**

— **Authorised Distributor / Stockist** —

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