



RAZON ENGINEERING COMPANY PRIVATE LIMITED

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AN ISO 9001-2008 COMPANY P.A.MORTAR EF-1 & TH-4

P.A. Mortar is a ready to use factory prepared mortar wherein specially prepared Polyamide formulation mixed with dry/ washed, pulverized & closely graded fine quality neutralised, quartz, zirconium sand and minerals capable of imparting extremely high strength, wear resistance at elevated temperature, chemical resistance etc are mixed. The mixing of P.A.Mortar is carried out in high-speed mixer, under low pressure and moisture free environment at elevated temperature to ensure no air and moisture entrapment in P.A.Mortar, Air entrapment & moisture leads to drastic reduction in strength.

This factory prepared mortar is merely mixed with accurate quantity of hardner at site, and used to obtain a self-curing, speedily curing, hard setting mortar. The shelf life of P.A. Mortar after mixing with hardner is 30-45 minutes.

PHYSICAL PROPERTIES OF P.A.MORTAR

1. Density	1.43 gms/cc
2. Strength after 24 hours	100 kgs/cm ² to 120 kg/cm ²
3. Crushing Strength (Fully cured)	1000 Kgs/m ² to 1200 kgs/cm ²
4. Bonding Strength to metals & concrete	Greater than tensile strength of concrete
5. Flexural Strength	Greater than 120 Kgs/m ²
6. Colour	Grey.
7. Packing	1 Kg, 4 Kgs (Resin & Hardner combined)

METHOD OF APPLICATION

Add hardener to the mortar and stir thoughly. Use this mortar within 30-45 minutes. Initial setting commences within one hour after mixing and sets within 24 hours to a strength of around 100 Kgs/m² to 150 Kgs/cm², and final setting is completed within 6-7 days. No curing required it is self-curing.

The surface on which P.A. Mortar is intended to be applied must be thoroughly cleaned, and must be free of oils, dust, grease, water, etc.

Use trowel for spreading the mortar. To obtain a smooth finish applies soapy water with cloth on trowel.

Clean all equipment and hands with turpentine after use, before the P.A. Mortar sets. Preferably use hand gloves when working with P.A. Mortar. Avoid Smoking.

P.A.Mortar is available in 2 forms:

- (1) Semi dry consistency for toweling application on vertical surface (trowable) **TH4**.
- (2) Semi wet consistency for self-leveling properties for grouting etc where small pockets / cervices are required to be filled (easy flow) **EF1**.

For concrete repairs filling honey combings: Clean the portion, which is to receive P.A.Mortar thoroughly. The surface must be completely dry free of loose dust. Make up the region to be repaired with P.A. Mortar.

For imbedding steel reinforcement bars into RCC member to extend the RCC member. Drill holes into RCC 1mm – 2mm larger than the steel bar to be embedded, 6”-8” deep. Fill the holes with P.A. Mortar, push the steel bar into hole to a depth of 6”-8”.

Packing: 1 kgs, 4 kgs, [combined mortar + hardner pack].

NO.	PRODUCT – DATA	
1	Colour	P.A.Mortar: Grey Mortar Hardner: Amber Coloured liquid
2	Principle constituent	Polyamide.
3	Specific gravity	After Hardner & Mortar mixed: 1.43
4	Storage life	1 year (store in cool dry place unmixed)
5	Pot life	After mixing 35-45 minutes.
6	Toxicity	Yes.
7	Precautions	Use gloves if necessary when using P.A.Mortar. Avoid smoking provide abundant ventilation. Wash & clean hands thoroughly after use.
8	Corrosive	Nil. After setting imparts high corrosion resistance to metal, concrete etc.
9	Test Report	Available I.S. 9197.
10	Application	a) Abrasion resistance flooring Runway, Highway repairs. b) Rehabilitation, Repairs of Concrete structures, dams, bridges, aqueducts. c) For imbedding steel bars into concrete for extension of RCC member. d) For any kind of instant repairs where 24 hours strength should be sufficient to take normal traffic.

OTHER PRODUCTS

Admixture: SPRMC 808 S11 B • Super Plasticizer –IWSP (M) – 101 • Super Plasticizer –IWSP (N) – 103 • Accelerator –2080 • Integral Water Proofer • IWSP –102 • I.W.P. Powder • Intrair (A.E.A) 120N • Master Plaster MP CS 101 • Block Maker BM-10 • Rapid Grout RG –117 • Tile Master TM – 1 • Anchorex 428 • Floor Hardner • Hycrete Rg – 608 • Brick Master • Super Paver • Pipe Master • Toughcrete PI09 • Guniting Admixture GS-942 • Non Shrink Grout Admixture NSG A-11

Other Products : Tile Fix # 1 • Tile Fix # 1A • Tile Fix SP # 1 • Strextra NSG 110 •

Strextra - NSG 2024 • Easy Grout • Water Repellent WBWR – 2023 • Water Repellent SBWR – 5000 • Shutter Coat for Wood & Metal • Concrete Cure Coating – 111 • Concrete Cure Coating – 103 • P.A. Bound • P.A. Mortar TH – 4 • PA. Mortar EF – 1 • P.A. Mortar Slurry • Marble Fix • Floor Repair Mortar • Insta Plugging Mortar • Pipe Joint Sealer • Tile Joint Sealer [Colour] – Red, White, Black, Brown, Ivory, Green, Grey, Pink. • Metal Protect • RZ – Polymer ED Mortar • Special Grouting System • Anti Hack Paint (XRG) • Tuffar • ADMGP – 1 • P A – Resin 651XXX • Hak Safe AL 111 • Paint Remover PR – 128 • COLGROUT Admixture CG – 101S • Rock Splitting Grout ATC-A201 • Ready Plaster • Best Plaster Putty



It is strongly recommended that site trials be conducted using site conditions and available raw materials to evaluate the product. Since site materials and conditions are beyond our control and since above suggestions and recommendations are based on our site trials and laboratory product evaluation & trials, and since methods of use at site are beyond our control. Hence, no guarantee can either be implied or enforceable