



**AN ISO 9001-2008 COMPANY**  
**P.A.MORTAR TH-4 A.F.**

P.A. Mortar TH-4 A.F. is specifically developed for repairs to Airport runways, air craft hangers, expressways etc., it is fast setting, develops sufficient strength to take loads of modern aircrafts, it is resistant to jet fuel, exhibits excellent abrasion resistance and has excellent bond strengths to concrete under high impact loads.

P.A. Mortar TH-4 A.F. is a ready to use factory prepared mortar wherein specially prepared Polyamide formulation mixed with dry/ washed, pulverized & closely graded fine quality neutralized, 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 TH-4 A.F. 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 TH-4 A.F., Air entrapment & moisture leads to drastic reduction in strength.

This factory prepared mortar is merely mixed with accurate quantity of hardener at site, and used to obtain a self-curing, speedily curing, hard setting mortar. The pot life of P.A. Mortar TH-4 A.F. after mixing with hardener is 30-45 minutes.

**PHYSICAL PROPERTIES OF P.A.MORTAR**

1. Density	1.8 gms/cc
2. Strength after 24 hours	100 kgs/cm <sup>2</sup> to 120 kg/cm <sup>2</sup>
3. Crushing Strength (Fully cured)	1000 Kgs/m <sup>2</sup> to 1200 kgs/cm <sup>2</sup>
4. Bonding Strength to metals & concrete	Greater than tensile strength of concrete
5. Flexural Strength	Greater than 120 Kgs/m <sup>2</sup>
6. Colour	Grey.
7. Packing	1 Kg, 5 Kgs (Resin & Hardner combined)

**METHOD OF APPLICATION**

Add hardener to the mortar and stir thoroughly. 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/m<sup>2</sup> to 150 Kgs/cm<sup>2</sup>, 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 TH-4 A.F. is available in semi-dry consistency for trowelling on vertical surfaces & hoizontal surfaces as well. **It is specifically developed for emergency Air port runway repairs.**

For carrying out emergency runway repairs, clean the crevices or pits thoroughly. Generally manual wire brush scrubbing shows excellent results. For large areas viz. aircraft hanger, mechanical wire brush scrubber may be used. Clean surface till clean, oil free concrete is visible. Pour P.A. Mortar TH-4 A.F. and level it to surrounded surface using trowel. If the material is found sticking to trowel allow 15-30 minutes for curing to progress, wet the trowel with soapy water and trowel the surface to a smooth finish.

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: 1.8
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 TH-4 A.F. 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 for Air port Runways, Air craft hangers, 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 P109 • 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 •



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