

# MIPRO-FA

## ACID/ALKALI/SOLVENT RESISTANT FURAN MORTAR

**INTRODUCTION:** MIPRO-FA is a two-part chemical setting Furan base mortar used for bonding acid resistant bricks and tiles. It is impermeable in texture and resistant to a very wide range of chemicals, including strong acids alkalis, oils, solvents and unaffected by temperature upto 170 C. MIPRO-FA "C" a 100 % carbon filled mortar is available where resistant to Hydrofluoric acid, fluoride salts and strong hot alkalis are required.

**AREA OF APPLICATION:** MIPRO-FA is used for acid resistant bricks and tiles lining where maximum chemical resistance is required e.g. dyestuff, rayon, steel, thermal power stations, fertilizers, petrochemicals, food-pharmaceuticals industries on locations like floors, drains, tanks, reaction & storage vessels, effluent treatment plants etc.

### PHYSICAL PROPERTIES

Color	Black
Mix Ratio by wt. Sol to Powder	1:3
Compressive Strength kg/cm <sup>2</sup>	350
Flexural Strength kg/cm <sup>2</sup>	75
Bond Strength kg/cm <sup>2</sup>	10
Water Absorption kg/cm <sup>2</sup>	1% by wt
Max. Temp.	170 C
Setting Time	18-24 Hours.

**METHOD OF APPLICATION:** MIXING: MIPRO-FA is prepared by mixing solution & powder to form a workable mortar. The recommended ratio of mixing is 1 part solution to 3 parts powder by wt. The ratio will vary depending upon ambient temperature and working conditions. Use clean, dry mixing pan. Place appropriate quantity of solution in mix pan, and add powder slowly, mixing thoroughly until completely dispersed. Do not mix more material, then can be used within 20-30 minutes.

**APPLICATION:** Ensure that bricks or tiles are clean, dry and stored at ambient temperature. Butter the bricks or tiles with mixed mortar ensuring uniform coverage, with a slight more in the center so no air pockets are formed while its installation. When using as only jointing mortar, it is essential that MIPRO-FA is filled to the full depth of the joint. During and after completion of the application, the area must be kept dry and free from any other materials, which can affect setting and curing of MIPRO-FA.

**CHEMICAL RESISTANCE** MIPRO-FA is recommended to use against very wide range of acids, alkalis, solvents, salts, oils and fats. However MIPRO-FA is not recommended to use against HF, fluoride salts, and strong hot alkalis. For these conditions, MIPRO-FA "C" 100 % carbon filled mortar is available. Also it is not recommended against strong oxidizing acids like chromic acid, Nitric acid and other oxidizing agents.

**STORAGE & SHELF LIFE** Always keep solution & powder in cool dry place in sealed container and bag, away from direct sun light, moisture etc. If stored as above, shelf life of solution: 1 year powder: 3-4 months

**PACKING** Solution: 25 kegs and 250 kgs sound quality MS drums. Powder: 50 kgs in LDPE+HDPE bags.

**HEALTH & SAFETY** It is advisable to wear protective wears at the time of use of MIPRO-FA and all other MIPRO brand products. In case of contact with eyes and skin, wash with plenty of water and consult a doctor.

This information, given above in good faith, is based on results gained from experience and tests. However, all recommendations or suggestions are made without guarantee since the conditions of use is beyond our control.

## CHEMIPROTECT ENGINEERS

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