

# MIXSET PM

Fast setting water seal mortar for active water leaks in concrete and masonry

**Mixset PM** is a single component quick setting sealing mortar which is a blend of hydraulic cement, graded sand special additives in dry powder form. It requires only site addition of clean water to produce a ready to use quick setting sealing mortar.

## Appropriation

- Seal active water or seepage under pressure through joints, cracks and holes in concrete or masonry, where a normal mortar would be washed away and resin would not bond.
- As a sealing mortar for construction joints or floors
- Excellent sealing material for cracks in reservoirs construction joints and other water retaining structures.
- Joint grouting, pointing between concrete segments in concrete and brick tunnels, sewage systems, pipes and mines
- For instant sewer connections
- For quick anchoring of bolts, conduits, pipes, railings, sanitary equipments etc

## Characteristics

Good adhesion to almost all surfaces  
Non toxic, so suitable for potable water  
Resistant to positive and negative pressure  
Excellent Durability  
Expands as to sets to ensure a permanent watertight seal  
Chloride free, will not encourage the growth corrosion in reinforcement  
No injection equipment is required  
Ultra rapid setting for instant leak plugging  
Easy to apply – to be mixed with clean water only

## Properties

Standard conforms: BS 1881 Part 5 1983 (ISAT); 476 Part 6)

DIN 1048: Part 5: 1991 / BSEN 12390-8:2000 (water permeability test)

Colour: Grey

Tensile strength: 3.3N/mm<sup>2</sup>@28 days

Compressive strength: 13.8N/mm<sup>2</sup> in 30 minutes

Flexural strength

2.7 N/mm<sup>2</sup>@30 minutes

6.1 N/mm<sup>2</sup>@24 hours

6.3 N/mm<sup>2</sup>@7 days

7.0 N/mm<sup>2</sup>@28 days

Maximum particle size: 0.8mm

Wet density: 2.14kg/dm<sup>3</sup>

Chemical resistance: Strong resistance against gasoline, diesel, sodium hydroxide, CaCl<sub>2</sub>, deicing salts, etc.

## Product management

Surface preparation: The surface must be clean and free of oil, grease, dust and any other unwanted residual material. Cracks or holes should be cut to a minimum width and depth of 20mm, cutting the sides as square as practicable. Undercut if possible. Avoid leaving a V section. Do not feather edge. Flush out holes, joints or cracks with water to remove loose particles and dust. All surfaces must be dampened with clean water immediately prior to the application of Mixaquaseal

# MIXSET PM

**Fast setting water seal mortar for active water leaks in concrete and masonry**

For sealing active water leaks:

Cut out the opening to a minimum diameter of 20mm or till a sound base is obtained

For sealing the wall /floor joint in an existing construction:

Cut out the joint or crack at least 20mm wide and deep, cutting back into the wall slightly.

To repair joints and cracks in masonry walls / concrete walls:

Cut out the defective mortar joints or cracks to minimum width and depth of 20mm. undercut if possible

For holes / patches / honey combs and other construction repair in concrete walls:

Remove all tie wires, wood or foreign objects by cutting back the concrete from the surface to a depth of 25mm.

For anchoring bolts or metal posts in concrete or masonry:

Drill a hole deep enough to secure the bolt or post properly and large enough so there is at least 10mm on all sides of it.

Mixing: The Mixset PM powder should be mixed with clean water by hand only. Mix quickly and well to a stiff consistency using approx 0.26 ltr (0.24 to 0.28ltr for desired consistency) of water for 1kg powder. Do not over mix.

It is not recommended to mix more than can be applied within one application ie, 1-2 minutes at 20<sup>o</sup>c. Do not re temper.

## Application method:

For sealing active water leaks:

Form a plug of the mixed material in the gloved hand until slight setting occurs. Then press the mortar firmly into the opening; exert full pressure, without moving the hand. Hold in place for approximately 60 seconds. If the opening is too big to be closed with 1 mix of Mixaquaseal mortar, work progressively from the sides to the middle, following the above procedure. After setting, but not completely hardened, trim off excess material in order to create a uniform level with the surrounding surface. Remove from center to sides.

For sealing the wall /floor joint in an existing construction:

Fill the opening with Mixaquaseal mortar force into place forming a cove.

For sealing the wall /floor joint in a new construction:

Fill the rebate with Mixaquaseal mortar, force into place forming a cove

To repair mortar joints and cracks in masonry walls, or cracks in concrete walls:

Trowel or press into joints

For holes / patches / honey combs and other construction repair in concrete walls:

Fill all the holes, patches, honey combing and other construction faults

THE CONSTRUCTION CHEMIST



FABCHEM



PYCHEM



MIX UK LTD

# MIXSET PM

Fast setting water seal mortar for active water leaks in concrete and masonry

For anchoring bolts or metal posts in concrete or masonry:

Fill the hole with a putty-like consistent mortar and tamp it down so that the entire hole is full.

Immediately centre the bolt or post over the hole and force it into the Mixaquaseal mortar. Tamp the mortar firmly around the bolt or post.

Curing: Once placed mortar has stiffened sufficiently. Dampen with clean water and maintain in a damp condition for a minimum of 15 minutes

## Coverage

1 kg of powder will fill 585cm<sup>3</sup> or a joint 20 x 20 x 1.45m

Approx. 1.7kg powder / dm<sup>3</sup>

Cleaning: No hardened material may simply be removed with water

## Packing & Storage

1kg, 5 kg bags

Mixset PM should be stored in cool, dry and shaded warehouses. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as per recommendations. In extreme tropical climate, the product must be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life

## Health & Safety

Mixset PM contains no hazardous substance. As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles shall be worn whilst handling. Wearing long sleeve overall, safety shoes and face mask is recommended for maximum safety. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labeling. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. For more details, please refer to the MSDS released on each Fab product

Rev. Nov-10/01

THE CONSTRUCTION CHEMIST



FABCHEM



PYCHEM



MIX UK LTD

Technical information given in this datasheet is true and exact to the best of our knowledge, laboratory upshot and hands-on application. The datasheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of the publishing is as in this sheet. All data are mean of numerous tests, assessment and analysis conducted under laboratory ambience. Climatic disparity in temperature, humidity, etc. and porosity of substrate may impinge on the values.

### Group Head office:

PYCHEM Co. L L C  
Post Box 23940, Sharjah.  
Te: +971 6 5420414 / 5431636  
Fax: +971 6 5421446  
Mail: [mail@fab-cc.com](mailto:mail@fab-cc.com)  
[fabchem@gmail.com](mailto:fabchem@gmail.com)

Under Technical Collaboration with  
**MIX UK Limited**  
Cherry Tree House, Cherry Tree Lane  
Rostherne, Cheshire, WA143RZ  
Web: [www.mixuk.com](http://www.mixuk.com)

### Head office:

T33A/1, Thryambhava Houses  
Kalapetty road, Coimbatore – 14  
Tel: 0422 3222245  
Fax: 0422 2625207  
Mail: [mail@fab-cc.com](mailto:mail@fab-cc.com)  
[fabchem@gmail.com](mailto:fabchem@gmail.com)