



Technical Data Sheet

PATCH FIX CONCRETE MC

(CEMENTITIOUS MICRO CONCRETE)

DESCRIPTION

PatchFix MC is a pre-packed cementitious micro concrete requiring only the addition of clean water to produce a multi application non shrink repair concrete at the site.

It is a special and unique blend of cements, graded sands, water reducing agents and special auxiliary chemical to deliver expansion in the plastic state to compensate for shrinkage.

USE

PatchFix MC is formulated for a wide range of applications such as repairing of damaged concrete structure

Typical areas of application are:

- ✓ Grouting in column base, base infilling
- ✓ Filling core holes, rod holes and defects in concrete
- ✓ Fill in grout for hollow block walls
- ✓ Joints between precast panels and other joints
- ✓ Tile slab panels
- ✓ Replacement of honeycombed or defective structural concrete

ADVANTAGES

- **Non shrink:** Delivers positive expansion in plastic stage.
- **Non segregation:** Highly stable segregation free grout.
- **Workability:** Can be pumped, trowelled or poured.
- **High early strength:** Ensure rapid installation.
- **Iron free:** No metallic iron is included in the mix as it is capable to introduce future deterioration due to rust expansion.
- **Other features:** Can be blended with clean local aggregate from 6mm to 10mm.
- **Chloride free:** Good early strength development without the use of chlorides.



TYPICAL PROPERTIES

Wet Density: 2200 kg/cu.m producing 16 liters of grout per 30 kg bag at a flow able consistency.

Setting time:

Initial set : 5.5 hours

Final set : 8 hours

Compressive strength: (N/mm²)

Age

1 day 10

7 days 40

28 days 50

APPLICATION INSTRUCTIONS

Planning: Plan surface preparation, formwork, fixing base plate, mixing and placing equipment, manpower and quantity of grout required.

Surface Preparation: The substrate must be clean, sound and free from oil, grease, curing compound or any loose material. It must be mechanically abraded back to a sound concrete. Bolts or anchor holes must be clean and free from dust or loose material. This can be achieved by blowing clean the hole.

Pre-soaking: It is essential to pre-soak the concrete substrate prior to application of PatchFix MC Pre-soak substrate with water for a minimum of 6 hours prior to repairing. Immediately before pouring, the excess water should be removed.

Formwork: It is essential that the formwork be constructed to facilitate rapid continuous and complete filling at area to be grouted. It is essential that the formwork constructed be leak proof and watertight. Foam rubber strips of suitable sealants underneath the formwork are recommended. Formwork should allow gravity flow of grout between the base plate and foundation ensuring grout is kept in full contact with base plate and concrete substrate.

Low temperature working: Normal precautions for winter working cementitious materials should then be applied. At temperatures below 5°C the cure rate and strength development rate will be dramatically reduced. If early strength is required, it is advisable to use heated water and condition PatchFixMC to 25°C. Do not exceed this temperature.



High temperature working: At temperatures above 30°C, it is advisable to use water below 20°C when mixing grout. All materials must be kept cool and away from direct sunlight with installation area to be shaded by erecting shade screeds. If ambient temperatures are excessive, perform grouting in early morning or late evening.

Mixing:

Required Water per 30 kg of PatchFix MC

For Flowable consistency - 5.7 – 6 lit

PatchFixMC is supplied in a ready to use form requiring only the addition of fresh clean water. For optimum results, PatchFixMC must be mixed with a mechanical forced action mixer with a high shear stirrer. It is essential that the grouting operation is continuous hence ensure sufficient labour and mixing capacity is available.

Do not mix by hand: The required water content should be accurately measured into a mixing vessel. Slowly add the powder while mixing. The mixing should continue for a maximum of 5 minutes until a uniform homogeneous consistency is obtained.

Do not add additional water: Discard any unused grout that has stiffed or hardener.

Placing: It is essential that at ambient temperatures the grout is placed within 20 – 25 minutes of mixing and this will ensure the expansion process will be maximized. PatchFix MC can be placed in thickness ranging from 20mm to 120mm in one single application. Where thickness is greater than 120mm, special procedure may be necessary.

CURING:

Curing will not be required in intermittently or totally submerged situations. However when cast above water exposed areas should be thoroughly cured.

CLEAN UP:

PatchFixMC should be removed from tools and equipment with clean water immediately after use.

PACKING

PatchFixMC is packed in 30 kg bags.



STORAGE & SHELF LIFE:

PatchFixMC as supplied shall be stored in a cool and dry place away from sunlight, moisture and high humidity and have a shelf life of 12 Months in the original packing.

HEALTH & SAFETY:

PatchFixMC contains cement and other filler materials which may cause sensitization by skin contact. Avoid contact with skin and eyes. In case of contact with eyes, rinse the eye with plenty of water and seek medical advice. Avoid inhaling the dust particles by wearing mask. Wear suitable protective clothing, gloves and goggles while handling.

ADDITIONAL INFORMATION

“Bostik India P Ltd.,” also supplies other construction chemicals, concrete repair and rehabilitation products including protective coatings, epoxy and polyurethane coatings and floor toppings, water proofing, concrete repair products, tile adhesives and grouts, adhesives and sealants based on PU and elastomeric rubbers for varied application in packaging, foot ware etc.,

WARRANTY

Whilst Bostik India P 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 products, since the method and place of application of the products are beyond its control. Its guarantee is therefore limited to the quality of materials delivered.



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