

CAP PATCH

HORIZONTAL /VERTICAL STRUCTURAL PATCHING MORTAR.

DESCRIPTION

CAP PATCH is a pre-mixed cement based mortar system consisting of polymers, micro silica aggregates, filler and chemical additives to provide a cohesive non-sag repair mortar giving a smooth finish with excellent adhesion.

When mixed with specified amount of water, a trowel able mortar results that is ideally suited for interior and exterior application.

COLOUR

Grey / white.

USES

- Repair of damaged, decayed, weak or de-bonded concrete.
- Replacement of concrete that has spalled chipped or cracked.
- Repair of vertical or horizontal surfaces.
- Re-profiling of concrete or masonry.
- Filling tie rod holes.
- To correct uneven structural irregularities.

ADVANTAGES

- High strength and low shrinkage.
- Perfect bonding to existing concrete.
- Perfect protection to embedded steel.
- High resistance to freeze/thaw cycles.
- No segregation or sedimentation.
- Can be applied up to 25mm in one pass without form work. Greater thickness can be achieved by the use of temporary form work.

PROPERTIES

Compressive strength as per ASTM C-109, w/p 0.16 (dry cure at 25 °C).

1day :	180 kg/cm ²
7 days :	360 kg/cm ²
28 days :	420 kg/cm ²

Wet density as per BS 1881 : Approx. 2300 kg/m³

Yield in 22 kg bag : Approx. : 2 lkgtu"l'dci

APPLICATION INSTRUCTIONS

Surface Preparation:

Clean the area to be filled from all loosely adhered matter or surface contaminants (oil, grease, form release agents, dust etc.). Surfaces should be sound and in spalled areas, clear off any loose or weak concrete. Where ever possible, cut vertical shoulders at edges to accommodate repair mortar. Mechanically roughen smooth surfaces to receive repair mortar.

Priming:

If corrosion is observed on the surface, the possible cause may be the presence of chlorides or due to carbonation. Apply a slurry coat of cement mixed with cap super bond

Substrate:

For optimum adhesion, mix cement WITH cap super bond to stiff slurry of brush able (not watery) consistency. Brush the slurry into the area to be patched. Do not allow slurry coat to dry and immediately fill with a stiff CAP PATCH mix.

Mixing:

CAP PATCH IS mixed by adding the dry powder to a measured volume of 4.9"-5.2 liters of water to be added with per bag of CAP PATCH0 Mix thoroughly with a suitable paddle mortar mixer or mix small quantity by hand and trowel.. Mix slowly until lump free consistency is achieved. At a time mix only a sufficient quantity of material that can be placed in 15 minutes. CAP PATCH should be mixed to a stiff paste like consistency. No tempering by the addition of additional liquid should be attempted. Clean the vessel frequently to avoid build up.

Application:

Begin application of CAP PATCH immediately after mixing, and work thoroughly into the repair surface. Compact well to secure proper bonding. Application can be done by trowel or by a rubber gloved hand. If desired overfill, allow to firm and shave appropriately. Finish with steel trowel until the applied surface becomes smooth and

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Level with surrounding surface. Do not over work and minimize trowelling. Minimum application thickness is 5mm. Do not featheredge. Maximum lift recommended is 25mm. For depth greater than 25mm, successive lifts are mandatory. Score the lifted surface and allow adequate curing time before installing additional lifts.

Curing:

CAP PATCH should be cured in accordance with good concrete practice by application of a suitable curing membrane (recommended CURCOAT-R or CURACOAT-P) or by wet burlap. Protection against rapid drying from wind, sun or excessive heat is necessary.

Cleaning:

CAP PATCH should be removed from tools, equipment and mixers with clean water immediately after use.

Note:

- Do not apply CAP-PATCH below 4⁰C or above 32⁰C.
- Temperature will affect setting time and cure rate. Factors that may cause poor material performance includes extremely hot and cold substrates during and upto 48 hours following application.

- Optimum performance of CAP PATCH will not be attained in cases like failure to dampen the substrate, failure to provide key in the patch to achieve proper bond, failure to bridge moving cracks or joints, presence of bond breaking agents in the substrate, premature loading, improper curing, failure to use the correct quantity of mixing liquid and other failuers to follow good application practices.

COVERAGE

22 kg of CAP PATCH will yield approximately ; Ø liter of mortar.

PACKAGING

CAP PATCH is supplied in 22kg bags.

STORAGE

CAP PATCH should be stored over pallets in a cool dry place. Shelf life will be 12 months in unopened bags.

SAFETY PRECAUTIONS

CAP PATCH does not contain toxic materials. Care should be taken to avoid inhalation of dust and to prevent material entering into eyes.

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TECHNICAL SERVICE:

Our Technical Service Department is available at any time to advise you in the correct use of this product or any other Ahlia products.

Note : The information presented herein is based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control.

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