

CAPCEM - L.W

EXTRA LIGHT WEIGHT VERTICAL AND OVERHEAD MORTAR

DESCRIPTION

CAPCEM-L.W is a one component pre-mixed cement based mortar consisting of cement, polymers, aggregates, fibers, light weight aggregates and chemical additives.

CAPCEM - L.W is specifically designed for vertical and overhead repair work where compressive strength is not prime concern.

(Not to be used for structural repair)

Its lightweight nature makes it ideal for reinstatement of large areas.

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

COLOUR

Grey

USES

- For use on vertical and overhead patching of scaled and spalled concrete and masonry.
- Resurfacing of damaged concrete.
- Repair of Honeycombed surfaces.
- Re-profiling of concrete or masonry.
- Parking structures and bridges.
- Retaining walls.
- Ceiling and sloped surfaces.

ADVANTAGES

- Single component, only requires the addition of water.
- Low shrinkage and high bond strength.
- Light weight formulation enables extra high Built repair.
- High resistance to freeze/thaw cycles.
- Silica fume formulation for a denser matrix and low permeability
- Suitable for both interior and exterior application
- Normal setting times increases workability and reduce waste.

PROPERTIES

Appearance: Granular grey powder

Compressive strength as per ASTM C-109, w/p 0.18

7 days : 80 kg/cm²

28 days : 160 kg/cm²

Wet density as per BS 1881: Approx. 1600 kg/m³

Yield in 25 kg bag: Approx. 18.00 liter/ 0.018 m³

APPLICATION INSTRUCTIONS

Surface Preparation:

Saw cut repair locations to a depth of at least 10 mm to avoid feather-edging and to provide a square edge. 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. Mechanically roughen smooth surfaces to receive repair mortar.

Remove all loose scales and corrosion deposits from reinforcing bars.

Priming

For optimum adhesion, prime with cap super bond diluted with 1 part water. Do not allow prime coat to dry and immediately fill /apply **CAPCEM- LW**

Mixing:

CAPCEM-L.W is mixed by adding the dry powder to a measured volume of water do not add more than 4.5 liter water for each bag of **CAPCEM-L.W**. 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. **CAPCEM-L.W** should be mixed to a mortar like consistency. No tampering by the addition of additional liquid should be attempted. Clean the vessel frequently to avoid build up.

Application:

Begin application of **CAPCEM-L.W** immediately after mixing, and work thoroughly into the repair

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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. Do not overwork and minimize trowelling. It can be applied in section up to 60 mm in vertical locations and up to 50 mm in overhead applications in a single application

Without use of formwork. Thicker section can be achieved by use of form work or in successive layers. Do not apply less than 10 mm.

Curing:

CAPCEM-L.W should be cured in accordance with good concrete practice by application of suitable curing membrane. (Recommended curacoat-R or curacoat-P) or by wet burlap. Protection against rapid drying from wind, sun or excessive heat is necessary.

Cleaning:

CAPCEM-L.W should be removed from tools, equipment and mixers with clean water immediately after use.

NOTE: Do not apply CAPCEM-L.W below 4°C or above 35 ° C.

Temperature will affect setting time and cure rate. A factor that may cause poor material performance, including extremely hot and cold

substrates during and up to 48 hours following application.

Optimum performance of CAPCEM- L.W 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 failures to follow good application practices.

COVERAGE

25 kg of CAPCEM-L.W will cover 0.018 m³ per bag.

PACKAGING

CAPCEM-L.W is supplied in 25 kg bags.

STORAGE

CAPCEM L.W should be stored over pallets in a cool dry place. Shelf life is 9 months in unopened bags.

SAFETY PRECAUTIONS

CAPCEM L.W 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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