Masonry Cement Composites (Pty) Ltd

Registration Number: 2014/263264/07
VAT No: 4090268972
27 Reuben Kaye Road, Parow Industrial, 7493
Tel: 021-934 0374 / Whatsapp: 068 006 4419

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Plast 1038 25Kg



SKU: MWMP3825

TECHNICAL DATASHEET

PLAST 1038
High Strength Structural Repair Mortar

PLAST 1038 ensures that repairs to new and old structures are watertight and further protects the concrete from deterioration by preventing penetration of chloride ions, sulphates, etc. Using new LC3 technology, the PLAST 1038 repair system protects embedded steel by creating a chloride ion migration resistant environment as well as ensuring thermal compatibility with the base concrete.

TYPICAL APPLICATION
Repair of concrete pipes/ precast concrete. Repair of damaged structural concrete used as a water-tight plaster / caulking mortar for beams and columns. Offshore structures and sewage-works, marine environments exposed to constant contact with sea water. Repairs and renovations to squash court walls. Repairs to honeycombing. Repairs to aerated concretes and mortars wherever a durable repair topping or render is required to ensure maximum resistance to salt penetration.

ADVANTAGES
• Spot repairs or mass mortar renovations
• Thermal movement similar to base concrete
• Vertical and horizontal applications
• Mechanical impact resistance
• High abrasion resistance
• Water surface absorption 90% less than concrete
• Good bond to concrete substrates
• Resistant to sewage attack
• Resistant to mild acids, alkalis and petroleum salts

WATCH POINTS

• Do not re-constitute the mix after initial setting has occurred.
• Do not apply more than 10mm thickness per vertical surface application.
• Do not apply in direct sunlight where surfaces are hot, or in strong winds without using curing compounds.

DIRECTIONS FOR USE
Surface Preparation:
Surfaces are to be clean, sound and free of deleterious substances. Remove all laitance, oil, grease, mould oil or curing compound from concrete surfaces using wire brush, bush hammer, scabbler or other plant as appropriate. When repairing damaged concrete, ensure that all loose concrete has removed down to a firm base. Note construction joints that need to be carried through the floor to surface.

Priming:
Prime all clean and prepared surfaces with BOND 1070 for best results. If inserting new reinforcing bars, coat same with METAL PRIMER prior to proceeding with the repair.

Application:
Whilst primer is still wet, carefully apply and compact PLAST 1038 from 2mm to 100mm dependent on repair size geometry. On larger vertical areas, layers should not exceed 10mm in thickness, though several layers can be applied in quick succession, each layer being allowed to obtain initial set before the next is applied (usually 2 hours between layers, dependent on ambient temperature conditions). Finish off the final surface. Alternatively scratch the first coat after application, allow to dry overnight and then apply second layer. Cure with water or with CURE 200. Squash court walls, new or recoated: Remove existing plaster to brick or concrete face and scarify where necessary to obtain a rough and sound surface. Wash down with water, pre-saturate prepared surface and apply bonding slurry of equal parts cement, water and SCREED PRIMER to surface. Immediately apply PLAST 1038 to the required thickness then strike off to desired profile and wood float. As soon as the PLAST 1038 has firmed, steel trowel to final finish. Cure with CURE 200.

TYPICAL PROPERTIES

Yield 12 Litre kits
Coverage 1.2m2 @ 10mm
Working Time 20 min
Initial Set Time 2 hours
Hard Set Time 12-18 hours
Application Temperature 15°C to 25 °C
Application Thickness 2mm - 100mm
Compressive Strength 30-40 MPa (28 days)
Flexural Strength 4.2 MPa
Tensile Strength 3.6 MPa
Water / 25Kg Bag 5Lts

Equipment Care
All tools should be cleaned with water immediately after use. If delayed, the equipment will need mechanical action to clean or be discarded.

Warranty
Masonry Cement Composites (PTY) Ltd products have a manufacturing defect free warranty. Products, when applied as

stipulated in this technical datasheet, will perform as specified without manufacturing defect.
REVISION: 5.5