TECHNICAL DATA SHEET

TIE HOLE SEALER

Rapid-Set Waterproof Mortar



PREMCRETE

TIE HOLE SEALER



DESCRIPTION

TIE HOLE SEALER is a single-component, polymer-enhanced cementitious repair mortar that provides excellent adhesion to concrete substrates. Once cured, it forms a dense, durable and waterproof barrier capable of resisting hydrostatic water pressure. Its rapid-hardening characteristics make it particularly suitable for applications where downtime must be minimised and fast return to service is required.

USES

TIE HOLE SEALER is designed for sealing tie-bolt holes in reinforced concrete structures. It is also suitable for waterproofing basement and substructure constructions, filling voids, repairing fixing holes and carrying out minor concrete repairs in precast and cast in-situ concrete elements.

ADVANTAGES

- Polymer modified for enhanced adhesion.
- Waterproof barrier against hydrostatic pressure.
- Rapid setting and early strength development.
- Non-shrink formulation.
- Single-component product requiring only the addition of clean water.
- Easy to mix and apply.

TECHNICAL & PERFORMANCE PROPERTIES

Property	Test Method	Value
Colour	N/A	Light grey
Pot life @ 20°C	N/A	20 minutes
Application temperature	N/A	5^0C to 25^0C
Density	N/A	2160kg/m^3
Compressive strength	N/A	11 MPa @ 1 day 28 MPa @ 7 days 33 MPa @ 28 days
Water to powder ratio	N/A	18% W/P 0.18 Maximum 1.4ltrs per 8kg unit
Compliance	N/A	BS EN 1504-3 Class R2

TIE HOLE SEALER

INSTALLATION PROCEDURE

Surface Preparation

The substrate must be free of surface laitance and dust and other deleterious substances. Surface should be abraded mechanically to ensure a good key is achieved between the TIE HOLE SEALER and the substrate. Before sealing tie bolt holes, the plastic tube should be drilled out to a depth of 50mm before applying the mortar. For water tight construction then TIE HOLE SEALER should be used in conjunction with PREMCRETE HYDROSTOP BR for maximum integrity.

Priming

TIE HOLE SEALER does not normally require a substrate primer. However, the surface should be thoroughly saturated with water taking care to ensure that no standing water is present immediately before application of the mortar commences.

Mixing

TIE HOLE SEALER should be mixed with water to the desired consistency. Typically, 1.4ltrs of water should be mixed with one 8kg pack of powder. The powder should be added to the water mixing thoroughly until a uniform consistency is achieved. Care should be taken to ensure that only sufficient material is mixed that can be applied within the 20 minute pot life. Should larger quantities be required then the mortar should be mixed using a slow speed paddle mixer to ensure the mortar is sufficiently mixed to produce a mortar with thixotropic properties.

Application

TIE HOLE SEALER should be applied to the substrate using a trowel, ensuring that a good initial contact coat with the substrate is achieved. The mortar may need to be built up in layers, depending on the thickness that is to be achieved. Care should be taken to ensure that the mortar is well compacted with no voids.

Curing

TIE HOLE SEALER when used for small repairs or for sealing tie bolt wholes does not normally require the use of a curing agent. However, for large repairs or in conditions of extreme direct heat then CURE AID AC should be immediately applied to the mortar once placements has completed

PACKAGING & COVERAGE

Pack Size

8kg Bucket

Yield

An 8kg pack will yield approximately 5 litres of mortar.



STORAGE & SHELF LIFE

TIE HOLE SEALER should be stored in its original container in dry conditions with temperatures between 5°C and 30°C.

HEALTH & SAFETY

See separate Material Safety Data Sheet.

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