

# TIE HOLE SEALER

## Rapid-Set Waterproof Mortar

### DESCRIPTION

TIE HOLE SEALER is a single component polymer enhanced cementitious mortar which exhibits excellent adhesive properties to concrete. Once cured it provides an effective barrier to water under hydrostatic pressure. It possesses rapid hardening properties, making it particularly suitable for applications where down-time must be kept to a minimum.

### USES

TIE HOLE SEALER is used for the filling of tie bolt holes that are commonly found in reinforced concrete wall constructions. It may be used as a waterproof mortar for basement and substructure constructions. It may also be used for filling voids and fixing holes in precast concrete elements.

### ADVANTAGES

- Polymer modified to provide enhanced bond to the substrate.
- Dense matrix when cured to provide effective barrier to hydrostatic water pressure.
- Rapid setting to provide a high strength mortar.
- Non-shrink to ensure maximum integrity.
- Single component requiring only the addition of clean water.

Property	Value
Colour	Cement grey
Pot life @ 20°C	20 minutes
Application temperature	10°C to 30°C
Wet density	2160 Kg / M <sup>3</sup>
Compressive Strength	8 MPa @ 1hr 35 MPa @ 1 day 60 MPa @ 28 days

### COMPLIANCE

TIE HOLE SEALER complies with highways agency standard BD27/86.

### 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.

**Substrate 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, 870ml of water should be mixed with one 8 Kg 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:** 8 Kg bucket.

**Yield:** An 8Kg pack will yield approximately 4 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 datasheet.

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