



GIC Mortar MH

Solvent Free Epoxy Lining and Benching Mortar

Uses

A trowelable epoxy mortar with maximum chemical and abrasion resistance for the protection of concrete and similar substrates. It is ideally suited for the rehabilitation of manholes up to a depth of 12mm in one application.

Typical Applications & Advantages

- Quite stronger than typical concrete.
- Excellent resistance to abrasion and impact
- Pre-weighed quality controlled materials ensure consistency and reduce risk of site errors.
- Unaffected by a wide range of acids, alkalis and industrial chemicals.
- Will cure under damp conditions. Cured surface is impermeable to water.
- Superior chemical and physical bond to virtually all substrates, dry or damp.
- Early strength development minimizes maintenance disruption.
- No harmful vapors present. Particularly suited for enclosed environments.
- Designed for easy laying to a fair finish

Standards Compliance

GIC Mortar MH complies with the requirements of the following standards:
BS 6319:1973 Part 2.
ASTM C 267-01

Product Description

GIC Mortar MH is a three component material supplied in pre-weighed quantities as Part A, Part B & Part C ready for on-site mixing and use. It is based on a high quality, solvent free, epoxy resin system; with special aggregate to provide high strength and excellent abrasion resistance. **GIC Mortar MH** is simple and cost effective for vertical and horizontal patching and for resurfacing to both dry and damp surfaces.

The low odour, non-sag and chemically resistant properties of **GIC Mortar MH** make it the ideal material for long lasting manhole rehabilitation and for use in similarly enclosed structures. **GIC Mortar MH** can be used in brick, block and all concrete manholes, including precast, and

provides impermeable high strength, monolithic lining to the interior of manhole walls.

Typical Properties

Density	: 2000 kg/m ³
Yield	: 7.5litres/ 15kg
Compressive strength @7 days	: 46.5 N/mm ²
Full cure	: 7 days @ 25±2°C
Chemical resistance	: Excellent

Technical Support

GIC provides a comprehensive technical support service to specifiers, end users and contractors and is able to offer on-site technical assistance.

Instructions for Use

Surface Preparation: Ensure the surface is structurally sound and free of dirt, dust, oil, laitance, paint, curing compounds etc. Surface should preferably be prepared by high pressure water jetting or light grit blasting, followed by thorough washing to remove dust and remaining particles. Diesel and oil contaminants should be removed with detergent and rinsed thoroughly with water. Prior to applying **GIC Mortar MH** all hydrostatic leaks must be stopped.

Substrate priming: Substrate should be primed using **TufBond GP**. **GIC Mortar MH** can be applied as soon as the primer has started to gel but still has a surface tack. This is normally achieved between 30 minutes and 4 hours depending on the ambient and substrate temperatures. If the primer cures hard, a second application must be made before the application of **GIC Mortar MH**.

Mixing: Do not commence mixing until all surface preparation, cleaning and shuttering is complete. **GIC Mortar MH** is supplied in pre-weighed units as Part A, Part B & Part C and do not split units during mixing. Mechanical mixing is necessary to produce a fully homogeneous mortar. The entire content of Part B should be emptied into Part A and the two components should be mixed thoroughly for 3 – 5 minutes. The mixed Part A & Part B should then be emptied into a suitable sized mixing drum or





TufBond

bucket. Then Part C should be added slowly while the product is being continuously mixed by suitable mechanical means, e.g. a heavy duty, slow speed drill (350 – 500 rpm) with a suitable mixing paddle. Larger quantities of **GIC Mortar MH** can be mixed in a heavy duty paddle mixer, however, no more than can be reasonably used with in the pot life of the product, should be prepared at any one time.

Application: The mixed material should than be used at once. It should be applied to the prepared surfaces with a spatula or steel trowel, pressing the mortar firmly on to all surfaces to ensure positive adhesion. To avoid sagging on vertical and over head surfaces, do not apply in thickness greater than 12 mm per layer. Where additional applications are required, do not tightly close the surface of the first layer. Subsequent applications should be made the following day.

Watch Points

Do not use solvents to thin components or to lubricate the trowel as this will prevent proper cure.

Equipment Care

Clean all equipment promptly using GIC Solvent No.1. Cured material will have to be mechanically removed.

Packaging & Storage

GIC Mortar MH is available in factory, pre-weighed units of 15 kg pack. It has a minimum shelf life of 12 months provided it is stored under cover, out of direct sunlight.

Coverage

Typically coverage of 1.5m²/pack @ 5 mm thickness is possible.

Health & Safety Precautions

GIC Mortar MH does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately – do not induce vomiting.

For further information refer to the Material Safety Data Sheet available for this product.

Important note

GIC endeavors to ensure that the technical information contained herein is true, accurate and represents our best knowledge and experience. No warranty is given or implied, as GIC has no control over the conditions of use and the competence of any labour involved in the application are beyond our control.

As all GIC technical data sheets are updated on a regular basis it is the customer's responsibility to check that the product is suitable for the intended application, and that the actual conditions of use are in accordance with those recommended.

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