

## TufBuild HB

### Lightweight High Build Cementitious Repair Mortar

#### Uses

- Vertical and overhead repairs
- General concrete and masonry repairs.
- Repairs to honeycombing.
- Large scale repairs where form work cannot be erected

#### Typical Applications & Advantages

- Pre packed, ready to use single component system which requires only the addition of water at site.
- Durable, high build, non-slump, lightweight mortar, consistent results.
- Shrinkage compensated to ensure complete void filling and load transfer.
- As part of the repair program for reinstatement of concrete, suffering from chloride or carbonation attack.
- For filling tie rod holes and voids.
- For repairs to damaged, debonded, weak or spalled concrete. Filling and re-profiling honeycombs in new and old construction.

#### Standards Compliance

TufBuild HB complies with the requirements of the following standards:

BS 1881:1970

BS 6319: 1983 Part 3

BS 6319: 1985 Part 7

#### Product Description

**TufBuild HB** is a single pack polymer modified, cementitious repair material. **TufBuild HB** consists of a blend of Portland cement graded silica sands, styrene acrylic copolymer powder, lightweight aggregate and shrinkage compensating agents. **TufBuild HB** is a quality controlled repair mortar that exhibits low slump characteristics coupled with remarkable ease of application.

#### Typical Properties

<b>Compressive Strength</b>	
@ 3 days	: > 18 N/mm <sup>2</sup>
@ 28 days	: > 25 N/mm <sup>2</sup>
<b>Tensile Strength</b>	
@ 28 days	: 1.9 N/mm <sup>2</sup>
<b>Flexural Strength</b>	
@ 28 days	: 4.9 N/mm <sup>2</sup>
<b>Wet density</b>	: 1900 kg / m <sup>3</sup>
<b>Yield</b>	: 15litres
<b>Full cure</b>	: 28 days @ 25°C

#### 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:** The perimeter of the area to be prepared must be clearly marked. The substrate must be sound and free from dust, oil, grease or other contaminants and should be suitably textured to provide adequate mechanical key; water jetting or needle gunning may achieve this. Edges must be cut back to at least 12mm to avoid feather edging. After preparation if the substrate is still weak or the steel is still corroded the extent of the area to be repaired must be increased. The surface should then be cleaned with oil-free compressed air.

**Priming:** The reinforcement must be fully exposed and thoroughly cleaned around the whole circumference during preparation. Selection of concrete primer will depend on the cause of the damage. For chloride induced repairs use TufBond EP. For all other repairs use either TufBuild PS or TufBond AR. Refer to separate data sheets for product instructions.

**Mixing:** It is recommended that **TufBuild HB** is mixed by forced action mixer adding the powder to the water and mixing for approx 3 minutes until homogenous; care must be taken to avoid over-mixing since air-entrainment could reduce the properties of the material. **TufBuild HB** requires 4.5 litres of water per bag +/-10% to vary the consistency of the mix. The mix remains workable for about 30 minutes, depending on ambient conditions.



**TufBond**

**Application: TufBuild HB** must be applied whilst the priming coat is still tacky; compact with a rubber gloved hand or wooden trowel. Ensure complete contact and compaction with the substrate. Finish with a steel float. Thicknesses of 30-50 mm are possible in one coat, depending on application parameters. For deeper sections, multiple applications will be necessary; intermediate coats should be textured to provide a key for subsequent coats. Successive applications will not require the use of the primer coat provided that the re-application is undertaken within 2 hours; if required use TufBond AR.

**Curing:** Proper curing of **TufBuild HB** is essential to ensure the optimum properties obtained.

### **Packaging & Storage**

**TufBuild HB** is available in 25 kg bags and it has a minimum shelf life of 12 months provided it is stored under cover, out of direct sunlight.

### **Health & Safety Precautions**

**TufBuild HB** 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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**Gulf International  
Chemicals SAOG**

FACTORY & H.O.

P.O.BOX 132,

PC 124, Rusayl

Sultanate of Oman

Tel: +968 24446800

Fax: +968 24446808

Email:  
gulfint@omantel.net.om

**Gulf International  
Chemicals**

REGIONAL OFFICE

P.O BOX: 98175,

DUBAI,

UAE

Tel: +971 4 2583221

Fax: +971 4 2583220

Email:  
gic\_dxb@emirates.net.ae



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[www.gicomman.com](http://www.gicomman.com)