



TufGrout HF

High Flow Shrinkage Compensated Cementitious Precision Grout

Uses

- TufGrout HF is used for free flow precision grouting, bedding and void filling applications.
- Used in a wide range of heavy duty applications such as Bridge bearings, Crane rails, anchor bolt fixing, machine base plates, etc.
- Used for space grouting precast concrete panels and floor repairs.
- Used as a grouting and anchoring agent for UPVC pipes service penetration.

Typical Applications & Advantages

- Excellent initial flow and flow retention.
- High early and ultimate strength facilitates rapid installation and durability of the hardened grout respectively.
- Dual expansion in plastic and hardened phases.
- Impermeable and resistant to oil and water.
- Suitable for pumping or pouring over a large range of application consistencies and temperatures.
- Suitable for grouting and anchoring of UPVC pipes service penetration

Standards Compliance

TufGrout HF complies with the requirements of the following standards:

BS 1881:1970
BS 4551 : 1988
ASTM C940-89

Product Description

TufGrout HF is a pre-mixed, pre-bagged cementitious non-shrink grouting compound specially formulated to produce a high performance, pourable grout with high strength and expansive properties. This imparts controlled expansion in both the plastic and hardened phases whilst minimizing water demand.

Typical Properties

Appearance	: Grey powder
Consistency	: Flowable
Wet density	: 2300 kg/m ³
Compressive strength	: ≥ 40 N/mm ² (3 days)
	: ≥ 50 N/mm ² (7 days)
	: ≥ 70 N/mm ² (28 days)
Flexural strength	: 13 N/mm ²
Yield	: 12.50 litres
Expansion characteristics:	Up to 2% @24 hours

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 foundation surface is free of dirt, dust, oil, laitance, paint, curing compounds etc. Bolt holes and fixing pockets should be blown clean of any dirt or debris. Soak the area to be grouted with fresh water for 24 hours prior to grouting; this will minimize local absorption and assist in the free flow of the grout. Immediately before grouting takes place any standing water should be removed with care being taken to blow out all bolt holes and pockets.

Base plates, bolts etc must be free of grease, oil and coatings. Equipment should be aligned and fixed in place before grouting. Ensure formwork is secure and watertight to prevent grout loss and movement during placing and curing. The use of formwork tape is recommended. During hot temperatures keep **TufGrout HF** and the areas to be grouted cool and shaded.

Mixing: Water contents are fixed at 3 litres/ 25 kg bag to ensure the stated results are reproducible on site. Minor increases can be made (+10%) during very hot and dry grouting applications. Prior to mixing ensure that sufficient **TufGrout HF** is available to complete





TufBond

all grouting operations. Ensure the mixer is damp but free of standing water. Add the water into the mixer and slowly introduce the entire contents of the bag of **TufGrout HF**. In hot weather use chilled water for mixing. Mix for at least 5 minutes until the grout has a smooth, even, lump free consistency.

Placing: **TufGrout HF** may be placed in thicknesses from 10mm and up to 80mm in a single pour, when used in under-plate grouting. Grout bolt holes and pockets prior to grouting between the substrate and base plate. Chains or metal straps laid in the formwork prior to placing may be necessary to assist grout flow. Pour the grout continuously from one side of the void to eliminate air. Grout should be poured across the shortest distance of travel. Maintain a constant hydrostatic head so that a continuous grout front is achieved. When large volumes have to be placed, the use of a diaphragm pump is recommended.

Avoid exposed shoulders on grout wherever possible. Shoulders will cure at different rates to the bulk of the grout due to differences in volume and temperature. Cracking or debonding may occur in extreme cases. Anchor shoulders with reinforcement if required.

Curing: On completion of the grouting operation, exposed areas should be thoroughly cured in accordance with normal practice utilizing water, wet hessian or a curing compound.

Packaging & Storage

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

Health & Safety Precautions

TufGrout HF 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 labor 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.

Rev: January 2009

**Gulf International
Chemicals SAOG**

HEAD OFFICE

P.O. BOX 132,

PC 124, Rusayl

Sultanate of Oman

Tel: +968 24446800

Fax: +968 24446808

**Gulf International
Chemicals**

REGIONAL OFFICE

P.O BOX: 98175,

DUBAI,

UAE

Tel: +971 4 2583221

Fax: +971 4 2583220



AN ISO 9001:2000 CERTIFIED COMPANY

www.gicomman.com