

## TRI- GROUT HF

**General purpose non- shrink cementitious grout**

### Description

**Tri-Grout HF** is a blend of Portland cement ,graded fillers and chemical additives which impart controlled expansion in the plastic state whilst minimizing water demand The low water demand ensures high early strength The graded fillers to assist uniform mixing and consistent grout.

**The product is certified by National Research Center.**

**Tri-Grout HF** has been tested in accordance to:  
ASTM (C109/C580/C307/C321)



### Uses

**Tri-Grout HF** is a general purpose grouting is used where it is void between a base plate and substrate, Such an application would be the grouting of stanchion base plate. It can also be used for anchoring a wide range of fixings. These include masts ,anchor bolts.

### Advantages

- Gaseous expansion system compensates for shrinkage and settlement in The plastic state.
- No metallic iron content to cause staining.
- Prepackaged material overcomes potential on site batching variations.
- Develops high early strength without the use of chlorides.
- High ultimate strength and low permeability ensure the durability Hardened grout.

### Technical Data @°25c

Color	Gray Powder
Density For Wet	2.1 ± 0.1 kg/L
Compressive Strength ASTM C 109	55 N/mm <sup>2</sup> 28 day 40 N/mm <sup>2</sup> 7 day 20 N/mm <sup>2</sup> 1 day
Flexural strength ASTM C 580	> 10 N/mm <sup>2</sup>
Chloride Content	Nil
Bonding strength to concrete ASTM C321	1.91 N/mm <sup>2</sup>
<b>Water / powder ratio</b>	
Consistency on mixing	L / 25 kg bag
Flowable	4.5
Trowelable	3.5

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#### Factory & Head Office:

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### Directions for use

#### Preparation

##### Concrete surface

The substrate surface must be free from oil, grease or any loosely adherent material. If the concrete surface is defective or has laitance, it must be cut back to a sound base. Bolt holes and fixing buckets must be blown clean of any dirt or debris.

##### Pre-soaking

Several hours prior to grouting , the area of cleaned concrete should be flooded with fresh water .

Immediately before grouting takes place any free water should be removed with particular care being taken to blow out all bolt holes and pockets

##### Base plate

It is essential that, this is clean and free from oil, grease or scale.

Air pressure relief holes should be provided to allow venting of any isolated high spots

##### Leveling shims

If these are to be removed after the grout has hardened they should be Treated with a thin layer of **Tri Form R** or grease.

##### Form-work

The formwork should be leakproof. This can be achieved by using foam rubber Strip or mastic sealant beneath the constructed formwork and between joints.

##### Mixing

- For best results, we should use a mechanically powered grout mixer.
- pour approx  $\frac{3}{4}$  of the mixing water into the mixer and add **Tri-Grout HF** gradually trying to avoid making lumps, then pour the rest of water and mix 3 minuts untill consistency obtained

##### placing

**Tri-Grout HF** can be placed in thickness up to 100 mm in a single pour when used as an underplate grout. For thicker thickness it is necessary for full out **Tri-Grout HF** with well graded slit free aggregate to minimize heat build up .typically a 10 mm aggregate is suitable. continuous grout flow is essential. Sufficient grout must be prepared before starting. the time taken to pour a batch must be regulated to the time to prepare the next one.

##### Curing

just placing **Tri-Grout HF** exposed areas should be cured with **Tri-Cure** range rary, or continuous application of water done to ensure proper curing.

### Cleaning

All tools should be cleaned with water immediately after use.

### Package

**Tri-Grout HF** is available in packing Sack 25 kg

### Shelf Life

12 month stored in dry and cool area

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### **Storage**

Store the material in a cool, covered dry place. Do not expose the pails to Direct sunlight and keep away from all sources of heat. The storage temperatures (10 – 30) C°

### **Health and Safety**

As with all construction chemical products, caution should always be exercised. Protective clothing such as rubber gloves, safety goggles and face mask Should be worn when handling the product. Treat any splashes to the skin or eyes with copious amount of fresh water. Should any of the products be accidentally swallowed, do not induce Vomiting, but ask for medical assistance immediately.



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