



# HIND CEM (MF)

## PRODUCT DATA SHEET

### ULTRAFINE CEMENTITIOUS INJECTABLE GROUT FOR ROCK & SOIL STABILIZATION

#### DESCRIPTION

**Hind Cem (MF)** is a unique formulated non-ferrous fluidizer, non gaseous, expansive type grout consisting of dry premixed blend of ultrafine special cement. In conjunction with a specially formulated admixture system it is used for injection grouting work for rock and soil stabilization. Due to the presence of finer particle size and a good plasticizing medium it penetrates deep into micro-cracks, fissures and seals all pores enabling to provide a impervious and water-tight stabilized rock or soil mass.

#### USES

- For injection grouting in Basements, Tunnels, Lift wells, Water Reservoirs, Pressure ducts, mines and Pre-stressed cable ducts.
- Rock and Soil stabilization and effective ground water sealing.
- Sealing of voids in rock by injection operation.
- To provide a watertight, impermeable rock and soil mass.
- Grouting of anchor bolts of machine foundation and columns.

#### ADVANTAGES

- Improved fluidity thus sealing micro-cracks, fissures and pores.
- Easy to use with Standard cement injection grouting pumps.
- Fast setting helps in speedy operation of construction activities.
- Very economical and durable.
- Non-toxic and safe to handle and non-hazardous.

#### APPLICATION

Always use **Hind Cem (MF)** with **Hind Plast Super**-Water Reducing Admixture and the dosage varying from **0.1%-1%** by weight of **Hind Cem (MF)**. Recommended **Powder: Water Ratio (by weight)** should normally be between **0.5 - 1.0**

#### Mixing

**Hind Cem (MF)** is to be gradually added to water and mixed thoroughly. All quantity of the grout should not be added at one time. Mixing procedure may be carried with a slow paddle mixer (**400-450 rpm**) or by means of any suitable mechanical mixer. Injection grouting work is now to be done by high pressure pump and the injection operation to be completed with a time period of 30- 45 minutes for better and effective results. Due to its fast setting properties it get set within **2-3 1/2 hours** and allow drilling operation to continue further.

#### PROPERTIES

Aspect		Grey Powder
Fineness (Blaine)		> 650 m <sup>2</sup> /Kg
Setting Time at 27 <sup>o</sup> C * (ASTM C – 1102-94)	Initial	90 minutes with 1 : 0.7 (Powder : Water Ratio) 115 minutes with 1 : 1 ( Powder : Water Ratio)
	Final	160 minutes with 1 : 0.7( Powder : Water Ratio) 200 minutes with 1: 1 ( Powder : Water Ratio)
Compressive Strength	7 days	> 10 Mpa
	28 days	> 25 Mpa
Chloride Content		Nil – as per B.S –5075 (Part-1)

Compressive Strength is dependent on the Powder: Water Ratio used. Above result for Compressive Strength is based on 1 : 0.5 (Powder : Water Ratio)

**Particle size distribution:**

<40 micron	100 %
<30 micron	98 %
<20 micron	97 %
<15 micron	94 %
<10 micron	77 %
< 5 micron	44 %
< 2 micron	16%

**SHELF LIFE**

Best before **6 months** from the date of manufacture. Should be stored in a cool and dry place away from direct sunlight at temperature ranging between 2<sup>0</sup> C (Min.) and 45<sup>0</sup> C (Max.).

**PACKING**

25/50 Kg. in HDPE bag

**HANDLING PRECAUTION**

**Hind Cem (MF)** is non-toxic and ingestion is to be avoided. If contact with eyes occurs, wash well immediately with water and seek medical advice.

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**Note:**

- **Hindcon Chemicals** maintains a team of technically trained professionals to provide full support to your problems in construction, and recommend the correct product to suite your specific requirements. Our authorized applicators can attend your site for application of the products.
- The content of the Technical datasheet are for general information and guideline. The result shown here are generated from our laboratory or from our site experiences.
- Quality of our products are maintained as per ISO9001:2008 recommendations and continuous researches. The behavior can change as per the prevailing conditions at the time of applications.
- Since **HINDCON CHEMICALS LIMITED** has no control over the use to which the users may put the material, it does not claim or warrant that in the user's particular circumstances, the result that the user will obtain from the product will be the same as those described in this communication or that the user will find the information or recommendations complete, accurate or useful. The client must test and ascertain the safety and fitness for the product for use.
- The right to change the properties of the products is reserved with us. The proprietary rights of third parties must be observed. All orders are accepted subject to the terms of sale and delivery. Users must always refer to the most recent issue of the latest Data Sheet for the product concerned, copies of which will be supplied on request.

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(AN ISO 9001: 2015 COMPANY)

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