



## HIND HSMC

### PRODUCT DATA SHEET

GENERAL PURPOSE, READY TO USE FREE FLOW NON SHRINK CEMENTITIOUS MICRO CONCRETE

#### DESCRIPTION

**Hind HSMC** is a ready to use repair mortar in powder form, also termed to be micro concrete is to be added with water and coarse aggregate to obtain a free flow non shrink high strength repair concrete conforming to **BS-4551-1980**.

#### USES

**Hind HSMC** is used for repairs to damaged reinforced concrete members, for cover replacing concrete, resistance to weathering action, and places where free flow concrete is required to be placed and vibration is difficult. Most suitable for structural repairs of columns, beams by means of encasement, jacketing etc.

#### ADVANTAGES

- Free Flow
- High Strength
- Pre weighted and packed so site batching faults are minimized.
- Fast strength gain
- Non shrink
- Resistant to weathering action for having low permeability.
- Chloride free.

#### APPLICATION

##### Preparation of surface

The surface of old concrete member should be properly prepared by chipping off all the loose concrete, exposed reinforcements should be cleaned and de-rusted manually or mechanically, anticorrosive coating of acrylic or epoxy base like **Hind Anti Rust** or **Hind Anti Rust EZ** to be applied on the de-rusted reinforcement, bonding coat based on Epoxy or Polymer latex like **Hind Bond EBA** or **Hind Styrene BR** to be applied on the surface of concrete, steel or plywood shuttering to be fixed within the time the bonding coat becomes tacky and does not set.

##### MIXING

The micro concrete to be mixed in the ratio of 1:0.5 to 1:0.75 (1 part powder of micro concrete chemical : 0.5 to 0.75, 12 mm down silt free stone aggregate) with a Water : Powder ratio of 0.21 .The micro concrete chemical and the coarse aggregate is to be dry mixed thoroughly first and then it is to be slowly poured in pre measured water in a mixing container and stirred thoroughly manually or by a power paddle to obtain a free flow uniform pourable mix.

#### POURING/PLACING

The mixed material is then poured manually or pumped into the gap between the concrete members and shuttering to get a self compacted screen concrete of thickness between 40mm to 125mm.No vibration is required except gentle tamping by a light weight tool.

## PROPERTIES

Compressive Strength	7 days - 40N/mm <sup>2</sup> 28 days - 50N/mm <sup>2</sup>
Tensile Strength	2N/sq.mm
Flexural Strength	5N/sq.mm
Specific Gravity	2100Kg/Cu.m
Expansion	0.1 to 0.5 %

## CONSUMPTION

25 Kg of **Hind HSMC** will yield approximately 12 Litre fluid grout. The actual yield will depend on the quantity of coarse aggregate added.

## PACKING

5, 25 Kg in HDPE Bags

## SHELF LIFE

6 months from the date of manufacture in unopened condition. To be stored in a cool and dry covered space away from direct sunlight.

## HANDLING PRECAUTION

**Hind HSMC** is non-toxic and ingestion is to be avoided. If contacts with eyes occur, 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.
- Qualities 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.

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