

# MARKCHEM MICRO SILICA

(HIGH GRADE DRY SILICA FUME POWDER)



## DESCRIPTION

**MARKCHEM MICRO SILICA** is composed of silicon dioxide ( $\text{SiO}_2$ ), collected from silicon metal and ferrosilicon. Micro Silica will react with the Calcium Hydroxide from the cement, which will form more of the Calcium Silicate hydrate, increasing the strength of the concrete. Using Micro Silica will also increase the durability of the concrete.

## FEATURES / ADVANTAGES

- Precast Usage
- Produces high early and higher ultimate compressive strengths
- Eliminates steam curing, saving on heating costs
- Shotcrete usage
- Less material wastage and greater efficiency of product use
- High impermeability and significantly less rebound loss
- Protects reinforcing steel from corrosion
- Improved bonding strength
- Thicker applications with each nozzle pass and enhanced pump ability

## FEATURES / ADVANTAGES

- High performance concrete
- Precast concrete
- Spray applied concrete
- Concrete exposed to environmental and chemical attack
- Marine concrete
- Ready mix concrete for high strength concrete

## TYPICAL CHARACTERISTICS

$\text{SiO}_2$	> 92%
Color	Light Grey To Dark
Loss on Ignition	2.0 - 4.0%
Moisture Content	0.1 - 0.35%
Retained on 45 micron sieve	Max 10%
Surface area (BET method)	15 - 28 $\text{m}^2/\text{g}$
Dry bulk density (densified)	500 - 700 $\text{Kg}/\text{m}^3$

## SPECIFICATION COMPILES

ASTM C1240 - 14

## DIRECTIONS FOR USE

**APPLICATION:** Dosage can be adjusted to meet various mix design requirements or to specific job site conditions. Trial concrete or grout mixes must be carried out to determine the appropriate dosage. Typical dosage is between 5% and 15% of cementitious powder content.

**Note:** MarkChem Micro Silica should not be used with a competitor's admixture without gaining Technical advice from your local MarkChem representative.

## STORAGE AND SHELF LIFE

MarkChem Micro Silica should be stored at room temperature (min  $10^\circ\text{C}$  and max  $35^\circ\text{C}$ ), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life is unlimited

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## PACKING

25 KG Sealed HDPE Bags, 1000 Kg Jumbo Bags

## PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

## DISCLAIMER

The above information and details herein are based on the tests conducted & experience on application and usage. The user is advised to carry out the test and take trials to satisfy on the suitability of the products and meeting his requirement considering the prevailing conditions prior to apply/ using it on larger area. As the conditions under which the products are used or transported are beyond our control. We would not hold ourselves responsible on its consequential nonperformance.



## MR MARK OVERSEAS

### REGISTERED OFFICE

VIJAY NAGAR, NEAR NAMASTAY CHOWK, GT ROAD, KARNAL - 132001  
(HARYANA) INDIA MOB : +91 8860760000, 9215703333

WEBSITE : [WWW.MARKCHEMCONSTRUCTION.COM](http://WWW.MARKCHEMCONSTRUCTION.COM)

EMAIL : [INFO@MARKCHEMCONSTRUCTION.COM](mailto:INFO@MARKCHEMCONSTRUCTION.COM)