

*A Green Quality Product for*  
**STRENGTH**  
**INSULATION**  
**PURITY**

**Silicafume is used in various industries like**

- Green concrete
- High performance concrete in construction
- Refractory
- Ceramic glaze
- Insulator
- Roofing shingles
- Waterproofing chemicals
- Specialty paints

## **Silicafume / Microsilica**

Silica fume is an eco green product. It is a good super-pozzolan. This super-pozzolan can be used in a big way to make special concrete mixes. There is a growing demand for fine amorphous silica in the production of special cement and concrete mixes, high performance concrete, high strength, low permeability concrete, for use in bridges, marine environments, nuclear power plants etc.

We manufacture organic Silicafume / amorphous silica, with silica content of above 85%, in very small particle size of less than 45 microns for application in High Performance Concrete.

# RSF-CON 120

High properties of RSF-CON 120, which improves characteristics of Concrete; Compression strength; Adhesion strength; Wear resistance; Freeze resistance; Chemical durability; Considerably reduces permeability; Resistance to sulphur & alkali attacks; Increased insulation properties, etc.

## Advantages

- Very low permeability to chloride and water intrusion
- Extremely high electrical resistivity (20 to 100 times greater than ordinary Concrete)
- Increased abrasion resistance on decks, floors, highways and marine structures
- Superior resistance to chemical attack from chlorides nitrates and sulphates
- Compressive strengths up to 20,000 psi (140 Mpa)
- High flexural strengths (14 Mpa @ 28 days) for airport pavements
- High early strengths for fast track construction projects and precast applications

## Use of RSF-CON 120

- Multi-storey Buildings
- Dams and Canals
- RCC Roads and Bridges
- Power Projects & Transmission Projects
- Railways and Airports
- Industrial floorings
- Used as admixture for waterproofing
- Precast applications like Pipes, Aerated Blocks, Paver Blocks etc.

RSF-CON 120 will protect concrete against deicing salts, seawater, road traffic and freeze/thaw cycles. Rebar corrosion activity and concrete deterioration are virtually eliminated, which minimizes maintenance expenses. It is best for Insulation properties in Commercial and Residential Infrastructures.

*Note: Results may vary due to differing raw materials, additives and testing conditions. The above specified values are meant for general description & are not to be taken as actual specification. Refsteel Solutions does not take any responsibility for incidental or consequential damages of any kind. It is the responsibility of user to determine the suitability of use.*



## RSF-CON 120 Specifications

Chemical And Physical Properties: ASTM C1240

Physical Properties	
Specific Surface (m <sup>2</sup> /gram)	> 15
Pozz. Activity Index (%) {7 days accelerated curing}	> 104
Retained on 45 Microns Sieve (%)	< 10 - 12
Variation from avg. retained on 45 Microns (%)	< 5 - 6

Chemical Properties			
Test	Unit	Result	Test Method
SiO <sub>2</sub>	%	85% to 95 %	IS Method
Moisture	%	< 3.0	IS Method
L.O.I.	%	< 6.0	IS Method



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We design and compose materials as per customers' requirements.