

## **TRI- MIX SF**

**High selective Micronized Silica Fume admixture.**

### **Description**

**TRI-MIX SF** is a high selective micro filling silica fume with good filling in the voids between cement particles.

**TRI-MIX SF** can be used as admixtures for concrete where lower permeability and reduces the size of capillaries, where it reacts chemically within cement matrix to increase the amount of calcium silicate hydrate and these lead to increase strength and decrease permeability



### **Standard compliance**

- ASTM C1240

### **Typical uses**

- It is a very reactive pozzolan so concrete containing silica fume can have very high strength and can be very durable.
- Simply added during concrete production. Placing, finishing, and curing silica-fume concrete require special attention on the part of the concrete contractor.
- Produced in both central-mix and dry-batch plants. produce consistent, high-quality concrete.

### **Note**

- **TRI-MIX SF** should be added with the cement to concrete at the batching plant before the addition of water and mix for 2 minutes.

### **Typical uses**

- **TRI-MIX SF** used as an admixture for concrete where lower permeability and reducing the size and number of capillaries in the concrete is required .
- **TRI-MIX SF** increase the concrete properties such as increasing the compressive strength, Flow ability, durability, in deferent concrete structures. Reinforcement Slabs and foundations, Beams and ceilings .

### **Advantages**

- Ready to use.
- Improve internal cohesion between components of the concrete mix.
- Increase compressive strength.
- Improves concrete workability, durability, impermeability.
- Increase chemical resistance.
- Increase abrasion resistance.
- Improve resistance to chloride ion diffusion.

**Technical Data @°25c**

Color	Gray
Density	0.6 ± 0.10
Dosage (theoretical)	3 –10 % by mass of cement depending on the type and concrete application

**Directions for use**

**Tri- Mix SF** should be added during concrete production plant in a manner Similar to that for cement or others concrete materials. Where it batched in Central or truck mixer.

**Package**

- **Tri- Mix SF** : available in packing Sack 10 Kg.

**Storage conditions**

- Store the material in a cool, dry and covered place.
- Temperature should not exceed 35 °C.
- Do not expose the pails to direct sunlight and keep away from all sources of heat.

**Shelf life**

- Has a shelf life of 12 month stored in dry and cool place

**Cleaning**

Tools should be cleaned immediately with water after use.  
Hardened material can only be removed mechanically.

**Sustainability and environmental accountability**

• TRI-CHEM's Environmental sustainability is the accountability to conserve natural resources and protect global ecosystems to support health and well-being for this a more positive approach is that accountability guides the actions of power-holders towards more socially and environmentally sustainable results.

**Technical support**

- For any technical support, please contact TRI-CHEM technical office or representatives.

**Health and safety responsibility**

- Workplace health and safety is all about sensibly managing risks to protect TRI-CHEM's workers and business.
- ISO 45001 is a systematic health and safety management is characterized by strong leadership involving managers, workers, suppliers, contractors and customers and also health and safety management is an essential part of the movement towards sustainable development.
- Spillages should be washed down immediately.
- PPE in accordance with the health and safety rules should be used during the materials application.
- For irritant effects of the non-cured material, avoid contact with skin and eyes during storage and application.



**Factory & Head Office:**

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### **Institutional Excellence and quality performance**

- Institutional excellence in TRI-CHEM refers to achieving high levels of performance, quality and effectiveness in all aspects of TRI-CHEM company's work, it involves a systematic and continuous effort to improve an organization's performance by applying best practices, innovative approaches and evidence-based strategies, institutional excellence spans various areas, such as training , research, innovation, community engagement, governance, management and sustainability, and involves setting high standards, measuring performance against these standards and continuously improving performance to meet or exceed these standards, excellence in TRI-CHEM also includes a culture of continuous improvement and learning, where everyone in the organization is committed to achieving the organization's goals, working together to find solutions to challenges and opportunities, and requires a collaborative approach that includes all stakeholders.
- All products originating from TRI-CHEM facility are manufactured under a quality management system independently certified to conform the requirements of the quality standards ( ISO 9001:2015).

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### **Disclaimer**

- While TRI-CHEM guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control.
- TRI-CHEM is recommended to verify with TRI-CHEM that the product is suitable for the intended use, and that this data sheet version is the latest one.
- TRI-CHEM may modify it without prior notice and technical characteristics are listed for guidance only.
- Any specification, recommendation or information mentioned in this product data sheet is (to TRI-CHEM's best knowledge) true and reliable.
- However, because TRI-CHEM has no influence on the application method of these products and the care taken, the company cannot accept any liability arising from the use of its products. TRI-CHEM's warranty is therefore limited to the quality of the materials supplied which are guaranteed against defective materials.

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