



VENCON - MS (Micro Silica)

Description

VENCON-MS is very micro granulated pozzolanic material composed of amorphous silica produced by electric arc furnaces as a byproduct of the production of elemental silicon or ferro silicon alloys. It can be used in a variety of applications as additive in concrete, grouts, mortars, fibre cement products, refractory oil/gas well cements, ceramics, elastomer and polymer applications. It is produced in conformance with the ASTM C 1240 SPECIFICATIONS. The quality is controlled and monitored throughout the entire production process to ensure that it meets or exceeds specification requirements.

Application Fields

VENCON – MS is used in concrete mixes to replace part of the cement content and enhance the resultant concrete's water impermeability and/or increase compressive strength. Typical application fields besides others include:

- Pre-cast & cast-in-situ concrete elements
- High performance concretes
- Marine structures such as bridges, causeways, piers, jetties, ship building yards, ports and quays
- Oil, gas & petrochemical processing structures
- Below grade structures exposed to aggressive ground waters such as foundations, rafts, basement walls & floors and underground tunnels
- Structures exposed to high abrasion such as concrete roads, bridge decks & factory floors

Salient Features

It is the result of careful processing and densification. Densification of the silica fume significantly reduces dusting, health hazards whilst minimizing storage space requirements. It is regularly tested to conform with ASTM C 1240 requirements & IS 1727-1967; RA 2013.

VENCON – MS is added at the batch plant in the powder form to the dry constituents of the mix or as a liquid suspension after slurring it.

It gives the following properties to the resultant concrete:

- Enhanced rheology (significant reduction/prevention of bleeding and segregation)
- Minimized shrinkage; reduced micro-cracking
- Enhanced cohesiveness and final surface finish
- Increased early and final compressive strength
- Increased density leads to improved water impermeability and significant reduction of chloride/sulphate ion penetration

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**VENCON
FLOW
CRETE**

Compatibility

VENCON –MS is compatible with common water reducers, high-range super plasticizers (including PCE based admixtures), retarders, rheology modifiers, non-Chloride accelerators, air entrainers and slump-extending admixtures.

Specifications

Form:	Free flowing powder
Color:	Grey
SiO ₂ content (*):	85% ± 1
Dry bulk density:	620 kg/m ³ ± 20
Specific gravity:	2.35 ± 0.1
Specific surface area:	22.5 m ² /g ± 7.5
Moisture Content	< 1 %
Maximum retention on 45μ(**) sieve	6.5% ±2

Addition Procedure

1.) Powder

VENCON – MS is added as a powder with the aggregates and sand and before the addition of the cement. Allow mixing for at least 30 seconds prior to addition of cement, mixing water and concrete admixtures.

2.) Slurry

It may be made into slurry on site to facilitate dosing and improve dispersion in the concrete mix. Use only quality slurring equipment with adequate suspension additive. Storage tanks may require an integrated circulation system that prevents sedimentation.

The VENCON – MS slurry is added with the final 25% of mixing water and allowed to mix in the batchplant mixer for at least 30 seconds.

Storage

VENCON – MS can be stored in unopened original packs for 24 months at 5-35°C (40-95°F) in adry storage place protected against sunlight and moisture.

Safety Precautions

Please observe the actual valid material safety data sheet and follow the described safety measures forhandling of the product.

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Packing

Available in 25 Kg bags.

Storage

Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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