

High Quality Micro Silica for concrete

Uses

Conplast MS micro silica is primarily used to improve the properties of hardened concrete where a reduction in permeability, increased durability and resistance to chlorides, sulphates, abrasion, frost attack and alkali silica reaction are required.

Advantages

- Significantly reduces permeability by minimising the penetration of moisture and aggressive elements
- Significant reduction in chloride ion penetration by reducing continuous capillary pores
- Improved mechanical properties.

Description

Conplast MS supplied as a fine powder is added to the concrete mix early during the mixing process. The resultant low permeability concrete will exhibit improved mechanical properties, and increased resistance to the effects of chlorides, sulphates, gases, frost attack and alkali silica reaction.

Technical support

Fosroc provides a technical advisory service for on-site assistance and advice on admixture selection, evaluation trials and dispensing equipment. Technical data and guidance can be provided for admixtures and other products for use with fresh and hardened concrete.

Standards compliance

Conforms to ASTM C 1240-95a.

Dosage

Typically 4 to 10% by weight of cement depending upon the specific need. The optimum dosage of Conplast MS to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use.

Please note higher addition levels are generally required where the high performance concrete such as high strength concrete or underwater concrete is a pre-requisite.

Properties

Chemical analysis

SiO ₂	Min. 85%
Alkalies as Na ₂ O	Max. 1%
Loss on ignition	Max. 5%
Bulk density	Approx. 610 kg/m ³

Application instructions

Dispensing and mixing

Conplast MS should always be added in the early stages of the mixing process. It is recommended that Conplast MS be weight batched to the required quantity prior to addition to the mix.

In dry batching operations, Conplast MS should be dry blended with aggregates and cement prior to the addition of water to the mixer. In wet batching operations Conplast MS should be added to the mixer at the same time as the cement. Conplast MS can if required, be added to the mixer in slurry form.

In order to achieve a low water cement ratio, the use of high range water reducing admixtures such as Conplast SP430, Conplast SP423 are highly recommended.

Placing

When producing concrete with Conplast MS we suggest a target slump in the range of 25 to 35 mm in excess of the normal slump requirement, this will accommodate the additional cohesion promoted by the use of Conplast MS.

Conplast MS



Concrete produced with Conplast MS will have greatly improved cohesive qualities.

Estimating

Packaging

Conplast MS is available in 15 kg bags.

Storage

Conplast MS has a minimum shelf life of 12 months if stored in a dry location in unopened packs

Precautions

Health and safety

Conplast MS is non-flammable. It may cause dust pollution and irritation to respiratory tract. Hence wear suitable dust mask, protective gloves and goggles while handling the material. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed, seek medical attention immediately - do not induce vomiting

Cleaning and disposal

The disposal of excess or waste material should be carried out in accordance with local statutory requirements.

Additional Information

In addition to concrete admixture, Fosroc manufactures a wide range of complementary products which includes waterproofing membranes, joint sealants, grouts and anchors and specialised flooring materials.

Additionally, a wide range of products specifically designed for the repair and refurbishment of damaged reinforced concrete is available.

This include hand-placed and spray-grade repair mortars, fluid micro-concretes, chemical resistant epoxy mortars and a comprehensive package of protective coatings.

For further information please contact your local Fosroc office.



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