



Product Description

BCI-MS is a dry silica fume powder. In use, BCI-MS improves the performance of concrete and mortar formulations. It acts physically to optimise particle packing of the concrete or mortar mixture and chemically as a highly reactive pozzolan.

Uses

BCI-MS 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

Standard Compliance

BCI-MS Conforms to **ASTM C 1240-14, IS1727-1967 & IS 15388-2003**

Technical Properties

SiO ₂	>85%
Colour	Grey
Odour	Odourless
Melting Point (°C)	1550-1570
Bulk density Typically	450-650 kg/m ³
Moisture Content	3% Max. by mass
Loss on Ignition	4% Max. by mass
Specific Surface Area	Minimum 15-30 m ² /g

Dosage

Typically 4-10% by weight of cement depending upon the specific need. The optimum dosage of BCI-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.

Application Instructions

Dispensing and mixing

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

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

Packaging

BCI-MS is available in 20 & 25kg bag

Shelf Life

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

Health & Safety

BCI-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.

BCI ADDITIVES INDIA LLP.

(Formerly : Berryman Chemical India Pvt. Ltd. Admixture Division)

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 www.bcia.in

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Manufacturing Unit :

- Ⓐ Plot No.636, KIABD 2nd Phase, KIABD Industrial Area, Vasanthnarsapura, Tumkur-572128. Karnataka
- Ⓑ Goligram, Guskara Road, Near R.S. Rice Mill, Burdwan - 713 126. West Bengal.

Important: BCI Additives India LLP., products are guaranteed against defective materials and are sold subject to its standard terms and conditions of sale. It is the Customer's responsibility to satisfy themselves by checking with the Company whether the information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current Technical Literatures. However, BCI Additives India LLP. does not warrant or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendation relating to application and end use are given in good faith.