TECHNICAL DATA SHEET

Chryso Concrete Solutions

09/10/2026

Force® 10,000D A

Densified Silica Fume - Powder

DESCRIPTION

Force® 10,000D A is a dry densified micro-silica powder designed to increase concrete compressive and flexural strengths, reduce permeability and improve hydraulic abrasion-erosion resistance. The extremely fine micro-silica particles can fill the microscopic voids between the cement particles.

It creates a less permeable structure. In addition, the micro-silica reacts with the free calcium hydroxide within the concrete to form additional calcium silicate hydrate binder, producing a tighter paste-to-aggregate bond. Force® 10,000D A complies with AS/NZS 3582.3:2016.

BENEFITS

- Increased water-tightness compared to conventional mixes
- Enhanced durability against chemical attacks
- Minimizes re-bound

APPLICATION

- Precast and prestress concrete
- Hydraulic abrasion-erosion and shotcrete
- Central or transit mix concrete production
- High strength concrete with 50 - 100 MPa
- Parking garages, bridge decks and concrete in a marine environment

INDICATIVE INFORMATION

Product Nature	Dry powder
Color	Grey
Lifetime	12 months

SAFETY

Prior to any use, please read carefully the Safety Data Sheet (SDS).

METHOD OF USE

Dosage :
Force® 10,000D A dosage rates varies based on the requirements of the application. Dosage rates should be calculated on percent micro-silica by weight of cement, or on kg / m^3 of concrete, as appropriate. Dosage rates are as specified. If not specified, consult your local Chryso representative for your job needs. It is strongly recommended that trial mixes be made several weeks before construction start up. A trial mix also helps to determine whether the combination of concrete materials and construction practices will allow the concrete to meet a specified performance.

Storing and Dispensing:
When adding Force® 10,000D A into a cementitious product, careful attention must be taken in the batching and mixing procedure to achieve optimum results.
Force® 10,000D A bags should be stored in a dry, protected area. A dust mask should be used when dispensing the product. Consult the product Safety Data Sheet for more instructions.

COMPATIBILITY

- Compatible with all Chryso concrete admixtures

The information contained in this document is given to the best of our knowledge and is the result of extensive and controlled testing. However,it cannot under any circumstances be considered as a warranty involving our liability in the case of misuse. Tests should be con ducted before the product is used to ensure that the methods and conditions of use of the product are satisfactory. Our specialists remain at the disposal of customers if they require help with the application of the product for their specific needs.
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