

ISO Slurry S50[®]

Micro Silica Slurry

ISOTEC

FEATURES

ISO Slurry S50[®] is an aqueous suspension of micro silica.

ISO Slurry S50[®] Silica fume for concrete. In use **ISO Slurry S50[®]** improves the performance of concrete and mortar formulations. These combined properties lead to an extended life and resistance to chlorides, acids and sulfates and improved strength.

Advantages

ISO Slurry S50[®] is stable during at least 2 weeks.

ISO Slurry S50[®] reacts with cement creating a dense matrix.

By reacting with cement alkalies **ISO Slurry S50[®]** reduces their content and protects it against the alkali.

Also **ISO Slurry S50[®]** reduces porosity by decreasing pore size. Porosity and permeability reductions inhibit the penetration of aggressive agents (for instance acids, chlorides, sulfates, carbon dioxide, and sea water) and prevent concrete from corrosion and Freeze- Thaw irreversible damage.

Application

ISO Slurry S50[®] is supplied as an aqueous suspension (slurry) with a solids content of 50% by mass and is easy to handle and pump. Batch into the concrete mixer and mix thoroughly ensuring full dispersion. Dosage varies depending on application recommended for all concrete mixes where high durability and mechanical performance are sought and required.

- High and Ultra High Performance Concretes.
- Self-compacting concrete.
- Early strength concrete.

Technical Data

Nature:	liquid
Silica fume content:	50% ± 3%
Specific Gravity:	1.38 ± 0.03
Activity Index (28d)	between 105-115%
pH-value	6 ± 2

Packaging

ISO Slurry S50[®] is available in IBC and other pack size.

Standard specifications

Quality Control of the Silica Fume used in **ISO Slurry S50[®]** complies with, EN 13263 and ASTM C1240.

Dosage

the required dosage depends on the concrete design and varies typically between 5 – 20 % of the cement weight.

ISO Slurry S50[®] should be added with the water before mixing the concrete.

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Storage and handling

Although **ISO Slurry S50[®]** has been designed to be stable 14 days, However, to prevent the natural process of segregation, the product should be regularly agitated to remain homogeneous. **ISO Slurry S50[®]** should not be allowed to freeze as this renders the product unfit for use. Check homogenize before use.

HEALTH, SAFETY & ENVIROMENT

ISO Slurry S50[®] is not considered dangerous to handle. Please refer to the material safety data sheet for additional information.

Legal Notes

The information provided in this data sheet, are given in good faith based on our current knowledge and experience of the product when properly stored, and applied by professional applicator, and under normal conditions in accordance with the mentioned recommendations. In practice under actual site condition differences are such that no warranty can be issued nor any liability can be taken, arising out of any legal relationship whatsoever. The product must be tested onsite to check its suitability for the intended application and purpose



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