



SIDHYA ASIA
CHEMICAL PRIVATE LIMITED

SIDHYA[®] MICROSIL

**WHERE CONCRETE
MEETS QUALITY**



SIDHYA® MICROSIL

Micro silica is a highly sustainable material which can be used as an alternate cement as a pozzolanic material. It can be used in producing high quality and durable concrete for readymix and precast industries. **Sidhya® Microsil** is brand which comprises of premium quality micro silica which helps to increase the compressive strength and cohesion in fresh concrete. **Sidhya® Microsil** reduces water permeability and increases the life of the structure.

PRODUCTS NAMES

Sidhya® Microsil 920D

Sidhya® Microsil 950D

Sidhya® Microsil 500S

APPLICATIONS

- ◆ High Performance concrete with high strength and durability requirements.
- ◆ Production of Self Compacting Concrete.
- ◆ Concrete for marine construction, dams and tunnels.
- ◆ Construction of blast furnace, troughs, bridge decks, girders and parking ramps etc.
- ◆ Used in the production of precast concrete.
- ◆ Used in the production of sprayed concrete, high strength grout and mortars.
- ◆ Concrete exposed to chemical attacks such as industrial flooring, sewage treatment plants and foundations.

Parameters	Sidhya® Microsil 920	Sidhya® Microsil 950	Sidhya® Microsil 500S
Bulk Density	Minimum 500	Minimum 500	-
Specific Gravity	2.10 – 2.30	2.10 – 2.30	1.40 +/- 0.03
Color	Grey	Grey	Grey
State	Powder form	Powder form	Liquid
Reactivity Index[%]	Minimum 110%	Minimum 115%	Minimum 110%
Dry Matter [%]	Minimum 99.0%	Minimum 99.0%	50.0 +/- 2.50
SiO2 [%]	85% – 92%	92% – 97%	92% - 95%
Retained on 45 µm Sieve [%]	Maximum 5%	Maximum 5%	Maximum 5%
Loss of Ignition [%]	1.0% - 4.0%	1.0% - 4.0%	1.0% - 4.0%

Test methods are available on request and as per compliance of ASTM C1240. For typical analysis of minor elements, please contact our Sidhya® Sales representative

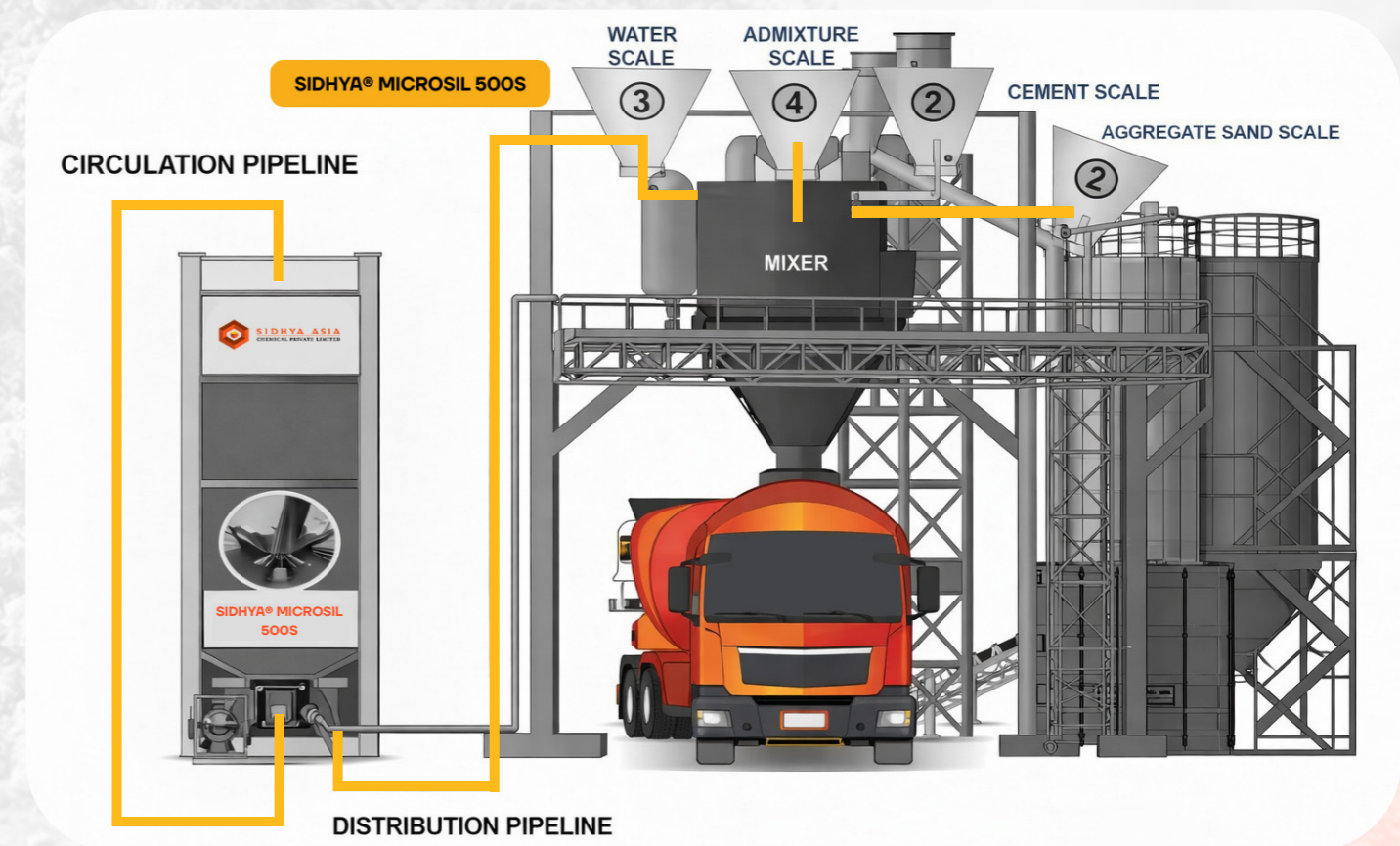
ADVANTAGES OF SIDHYA® MICROSIL 500S

-  **ENHANCED CONCRETE QUALITY**
-  **DECREASED HANDLING COST**
-  **SAVED WASTAGE COSTS & INCREASED ENVIRONMENTAL-FRIENDLINESS**
-  **IMPROVED HEALTH CONDITIONS**
-  **OPTIMISED WORK PROCESS**
-  **REDUCTION IN CARBON FOOTPRINT**

SIDHYA® MICROSIL 500S- A SUSTAINABLE SOLUTION

Sidhya® Microsil 500S is a colloidal suspension consisting of high-quality Micro Silica Powder and carefully designed special additives to stabilize the suspension. The silica fume is very finely dispersed in water and stabilised with additives is the liquid form of densified Micro silica which can be used in production of watertight and high durable concrete. Sidhya® Microsil 500S is highly recommended to be used in concrete in projects with requirements of Sustainability and environmental concerns such as exposure to chemical attack, abrasion and aggressive atmospheres. Sidhya® Microsil 500S is highly dispersing in nature and hence reacts with calcium hydroxide out of the cement hydration. The product enhances the rheology of the fresh concrete and improves the mechanical properties of hardened concrete. SIDHYA® MICROSIL 500S is tested according to the ASTM C 1240 and complies with the requirements.

MECHANISM OF DOSING





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