

Teknosilica

MICROSILICA

Product Description TEKNOSILICA is undensified admixture which consists primarily very fine amorphous SiO₂ particles and meets ASTM C-1240 standards, Microsilica is used in construction, construction chemicals and refractory industries.

- Areas of Usage**
- Ready mixed concrete and grout
 - Refractory industry
 - Offshore and marine structures
 - Dams, tunnels, bridges and motorways
 - Industrial floors
 - Shotcrete applications
 - Concrete pipes
 - Precast ve prefabric industry
 - High rise buildings

- Features and Benefits**
- Strength: Compressive and flexural strength increased significantly
 - Permeability: reduced by 10 or more
 - Chloride ion penetration: Reduced diffusion of chloride ions by a factor of 3 or more
 - Reinforcement corrosion inhibitor: Electrical resistivity increased by more than 500%
 - Chemical resistance: significantly improved
 - Sulphate resistance: equivalent to or better than sulphate resistant cement
 - Alkali silica reactivity: close to total suppression
 - Abrasion resistance: greatly increased
 - Shotcrete: rebound reduced by 50% or more and compaction, strength and cohesion enhanced
 - Durability: dramatic increase in service life of concrete in all aggressive/chemical/marine environments.

Technical Data

General Information	
Amorphous SiO ₂	min% 85 (real 92-96)
H ₂ O (humidity)	max%3
LOI	L.O.I max%3,5
Retained 45micron	max %2.5
Density	0,25-0,35 kg/dm ³
BET	min. 15-28 m ² /gr
Packaging	750 kg big bags
Storage and shelf life	Shelf life when stored in dry warehouse conditions above 2°C is unlimited.

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.