

## MICROSILICA

### Description:

DOSTSİLİCA-920U is undensified admixture which consists primirly very fine amorphous SiO<sub>2</sub> particles and meets ASTM C-1240 standarts, Microsilica is used in construction, construction chemicals and refractory industries.

### Application Areas:

- 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

### Advantages:

- Strenght: Compresive and flaxural strenght increased significantly
- Permeabilty: reduced by of 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: sinnificantly improved
- Sulphate resistance: equivalent to or beter than sulphate resistant cement
- Alkali silica reactivity: close to total suppression
- Abrasion resistance: greatly increased
- Shotcrete: rebound reduced by 50% or more and compaction, strenght and cohesion enhanced
- Durability: dramatic increase in service life of concrete in all aggressive/chemical/marine environments.

### Technical Specifications:

Amorphous SiO <sub>2</sub>	Amorphous SiO <sub>2</sub>
min% 90	min% 90
H <sub>2</sub> O (humidity)	H <sub>2</sub> O (humidity)
max%3	max%3
LOI	LOI
L.O.I max%3,5	L.O.I max%3,5