



TECHNICAL DATASHEET

POWDER 501

Microsilica- Powder

Color: white



Application

POWDER 501 Microsilica is an additive for concrete to improve the strength, sealing and workability.

POWDER 501 is also used for glassfibre reinforced concrete / textile reinforced concrete – specially for an optimal durability.

Workability

POWDER 501 is a powder. It can be used as powder or as slurry mixed with water.

Material

POWDER 501 Microsilica is an amorpheus Siliziumdioxid (SiO₂) of high purity. The SiO₂-content is more than 99 %. The colour is white. The size of the spherical powder particles is about 9 µm. Because of this fineness of the material and the large specific surface area of about 30 m² / g (BET) is the POWDER 501 very reactive.

POWDER 501 is a puzzolanic material with pH-value 4,8.

Specific Characteristics

Due to its high fineness tends uncontacted Microsilica - powder to agglomerate. This is evident from a tuber formation up to about 10 mm. This effect is favored by longer storage time, frequent handling processes and compression (lower layers of bags within a range). The agglomerates are destroyed again during the mixing process is usually quick. When using Microsilica powder in dry mortars, it is recommended that the material for about 1 minute dry with the coarse aggregates premix. Thus, the agglomerates are ground effectively. Only after the flour fine starting materials should be added. Please note that the nature and frequency of agglomerates in Micro Silica powders cannot be influenced by us. If the processors give additional expenses associated with the destruction of Microsilica - related agglomerates, we have resulting claims basically back!

Technical Data

Appearance	white Powder	
Weight los by ignition (1000 °C)	% b.w.	0,70
Density	g/cm ³	2,20 at 20°C
pH- value		4,8
SiO ₂	% b.w.	>99,99

Physical properties

Surface BET	m ² /g	ca. 30
Bulk density	g/l	200
particle size D ₅₀	µm	ca. 9
Melting point	°C	≈ 1700

Packaging

Karton (Euro)	2 kg	Art.-Nr.: MA0147K2
Bags (CP3)	15 kg	Art.-Nr.: MA0147K15
Palet (CP1)	1 Bigbag 420 kg	Art.-Nr.: MA0147LN

Storage

POWDER 501 Microsilica is to be stored on a dry place.