

## Microsil 90 Bianco

Selected and thickened white silica fume



Selected white silica fume for the production of high density and high performance conglomerates (waterproofness, chemical stability, mechanical strength etc.), for packaging sulphate-resistant, anti-leaching mortars, plasters, grouts and concretes.

**CUSTOMS CODE:** 2811 2200

**COMPONENTS:** Single-component

**APPEARANCE:** Powder

**AVAILABLE COLORS:** White ivory

**PACKAGING AND DIMENSIONS:** Bag 20 kg - Big bag 1000 kg - Pallet: 60 x (Bag 20 kg)

### FEATURES AND BENEFITS

Microsil 90 Bianco consists of high purity (greater than 90%) silica fumes, selected, processed and bagged. Silica fume, the only component of Microsil 90 Bianco, is created spontaneously during the production of silicon steel (special and limited production). For all intents and purposes, therefore, silica fume is nothing more than particles of  $\text{SiO}_2$  released during machining processes of silicon metal and iron-silicon alloys, in the form of very fine powder with vitreous structure. These micro-granules, purified and selected, have a variable size between 0.01 and 1  $\mu\text{m}$ , therefore much finer than cement granules, and are characterised by very high pozzolanic reactivity. Silica fume has been used now for over than 40 years all over the world for the fundamental improvement of rheological and performance characteristics of concretes, mortars and special plasters where they are introduced.

### FIELDS OF APPLICATION

Production of sulphate-resistant, sulphate-resistant, anti-leaching mortars, plasters, grouts and concretes, high performance in terms of watertightness, mechanical resistance, chemical resistance etc., in the realisation of civil engineering and hydraulic structures and works in marine, mountain, urban atmospheres etc.

### ALLOWED SUPPORTS

Plasters - Concrete - Cement-based or lime-based mortars

### MODE OF USE




Microsil 90 Bianco must be poured into a concrete mixer subsequently to other solid components of the mixture: cement and aggregates. After mixing for about 30 - 45" add the mixing water, where possible with the addition of Fluid S, continue to mix until a strictly homogeneous mixture is obtained. Prepare test mixtures in order to determine the most suitable mix.





## APPLICATION METHODS

To be added to other components

## KEY FEATURES

-  Consumption (% by weight of binder): 7-12 %
-  Maximum diameter of aggregate: < 30 µm
-  Shelf-life: 6 months

-  Highlighted product
-  Nonflammable

## TECHNICAL SPECIFICATIONS

Apparent density **600 kg/m<sup>3</sup>**

## CONSUMPTION

From 10 to 30 kg of Microsil 90 Bianco for each cubic metre of concrete to be made.

## STORAGE AND CONSERVATION

Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight.

## PHOTO GALLERY



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**Total pages of this document: 3**

## ADDITIONAL CONTENT



## Microsil 90 Bianco chemical composition

SiO <sub>2</sub>	≥ 67,0%
AlO <sub>3</sub>	≥ 10,0%
CaO	≥ 17,0%
MgO	≥ 1,5%
minor elements	≠ 4,5%

**NOTE: The CaO present in the composition, produced at high temperatures, is inert.**

## WARNINGS AND PRECAUTIONS

Protect and damp harden the mixtures obtained. The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge.

Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

Azichem Srl does not assume any liability arising from inadequate characteristics related to improper use of the product or connected to defects arising from factors or elements unrelated to the quality of the product, including improper storage.

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It is forbidden to dispose of the product and/or packaging in the environment.

