



BF 16

High-strength pozzolanic concrete



Product description

Dry premix based on selected aggregate in a suitably recomposed grain size curve from 0 to 3 mm, pozzolanic hydraulic binder and water reducing and pumping promoting additives.

Supply and storage

BF 16 is supplied loose in a 22 m³ silo system or in bags.

Installation methods

The BF 16 concrete is automatically mixed by the mixing machine (type SMP) with water at a rate of approx. 17 litres per 100 kg of powder.

As an alternative to the SMP pump, we recommend the use of double mixing machines or technical solutions capable of guaranteeing adequate and effective mixing of the product with the mixing water.

The mortar thus prepared is pumpable

by the pump (type SMP) with flow rates of up to 100 l/' at a pressure of up to approx. 15 bar; these values are only a reference as the data are subject to variations depending on the length of the jet pipe, its diameter and climatic conditions.

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Peculiarities of mortar

Betoncino BF16 is manufactured with pozzolanic hydraulic binders that provide protection against chemical aggression and increase the durability of the works over time.

The viscosity and fluidity of BF 16 concrete allows the use of a long casting line or one with moderate head.

The use is also indicated when shorter setting and hardening times are required (in any case, an assessment of the rebalancing of the geotechnical conditions is essential).

The BF 16 concrete undergoes continuous testing in the in-house laboratory, which ensures that it meets the required standards and provides consistent performance.

Warnings

Betoncino BF 16 must be applied at a room temperature between 5°C and 30°C. At low temperatures (5°C ÷ 10°C) it is advisable to mix the material with warm water. Conversely, at high ambient temperatures, it is advisable to mix with cold water.

Do not mix BF 16 with other substances.

Avoid large temperature changes during the setting phase. The product must be protected from frost and rapid drying.

The mixing water must be free of impurities for the correct functioning of the equipment.

Given the rheological characteristics of the product, start the mixing machine (type SMP) with cement slurry.

The qualification of the mortar is obtained by means of the spreading test and the mix density test; it is advisable to carry out these tests at least at the beginning of each casting session.

It is advisable to cast the micropiles from the bottom of the hole to avoid contamination of the concrete shaft.

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TECHNICAL DATA	PERFORMANCE
Maximum diameter	3 mm
Maximum water	approx. 17%
No-shock spreading (UNI EN 1015-3 mod.)	190 - 230 mm
Fresh density	approx. 2200 kg/m ³
Theoretical yield	approx. 1850 kg/m ³
Reaction to fire	class A1
Mechanical flexural strength at 28 days (UNI EN 196)	7 N/mm ²
Mechanical res. to compression at 28 days (UNI EN 196)	38 N/mm ²
Fluidity (Marsh cone nozzle 10mm)	30" - 45"
Elastic modulus at 28 days	35,000 N/mm ²

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I dati riportati si riferiscono alle prove di Controllo Qualità in condizioni ambientali normalizzate. Applicazioni pratiche di cantiere a seconda delle condizioni di esercizio possono rilevare dati sensibilmente modificati, pertanto le informazioni presenti nella Scheda hanno valore puramente indicativo in quanto l'utilizzatore deve sempre verificarne l'idoneità nell'impiego del prodotto assumendosi la responsabilità derivante dall'uso. Fornaci Calce Grigolin S.p.A. si riserva di apportare modifiche di qualsiasi genere senza alcun preavviso.