



SUPER-PLASTICISER WITH POZZOLANIC ACTION FOR CONCRETE.

PRODUCT DESCRIPTION

Betofluid PZ50 is a colored powder consisting of spherical, submicron particles of amorphous silica. Their extremely small size less than $0.1 \mu\text{m}$ allows the granules of Betofluid PZ50 to fill the gaps between the larger cement granules ($0.1\text{-}100 \mu\text{m}$). The result is a considerably denser, more compact cementitious matrix for concrete that is cohesive and plastic when fresh, and impermeable and durable when hardened.

FIELD OF APPLICATION

- For high quality concrete with the ability to resist the most severe conditions
- For concrete with special rheological properties that guarantee high thixotropy during application.
- For new constructions: viaducts, bridges, floors, garages, roads, motorways and airports
- For new constructions exposed to de-icing salts in winter
- For marine constructions and motorways that have decayed due to aggressive sulphates and chlorides
- For underwater poured
- For ultra-high quality shotcrete for tunnel walls.

CHARACTERISTICS

- High water reduction at low dosage, resulting in shorter drying times, higher densities and strengths
- Reduced processing and compaction efforts due to very good flow and self-leveling behaviour
- Particularly high activity in systems with pH-value > 12
- Reduced mixing times due to fast adsorption
- High initial flow, long slump life and processing time
- Improved shrinkage and creep behaviour
- Low influence on hydration, resulting in low activator/accelerator consumption
- Compatible with cements with high C3A, sulphate and alkali content
- Compatible with other additives (e.g. fruit acids, such as citric acid)
- Free of formaldehyde and ammonia.

APPLICATION PROCEDURE

Add Betofluid PZ50 into the cement mixer together with the other components of the concrete at a rate of 20 to 40 kg/m^3 , depending on the type of concrete required. To achieve the maximum performance from the product, we recommend mixing the concrete for at least 5 minutes so that the granules of Betofluid PZ50 are as well dispersed throughout the mix as possible.



If the amount of Betofluid PZ50 and cement/water ratio employed do not achieve the plasticity required, the workability of the concrete may be further improved by adding super-plasticisers without adding more water.

DOSAGE

The amount of Betofluid PZ50 added to concrete varies from 20 to 40 kg/m³, depending on the performance level required. Different amounts to recommended above must be tested beforehand.

PACKAGING

Betofluid PZ50 is supplied in:
– 25 kg plastic bag.

SHELF LIFE-STORAGE

Original sealed packaging of this product is guaranteed to be of first quality for 24

months if stored in a dry area. The high humidity will reduce the shelf life of the bagged product.

SAFETY INSTRUCTION

BETOFLUID PZ50 is an irritant containing cement that when in contact with sweat or other body fluids causes irritant alkaline reactions and allergic reactions to those predisposed. It can cause damage to eyes. It is recommended to use protective gloves and goggles and to take the usual precautions for handling chemicals. For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet. PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA

Product identity

Appearance	Powder
Color	Dark grey
Density	0.7 kg/Lt at +20°C
Equivalent sodium oxide	≤ 0.5%
Total chloride ion content	Free

WARNING

Danger. Contains Portland Cement: Chromium VI < 2 ppm within the validity period of the product. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. P261 Avoid breathing dust. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302 + P352 IF IN CONTACT WITH YOUR SKIN: Wash with plenty of water/... P305 + P351 + P338 IF IN CONTACT WITH YOUR EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor/...



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