



DEVELOPMENT RESINS ADMIXTURES CONCRETE

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VISCOBETON

ADMIXTURE TO PRODUCE CONCRETE
TO POUR IN UNDER WATER WORKS

DESCRIPTION

VISCOBETON is a product in powder specifically formulated to produce concrete not washable out and not segregable to be used in underwater works.

The product increases the viscosity of cement conglomerate working on the water and on the fine particles, forming a colloidal composite resistant to washing out and to external water penetration either on fresh or hardened state.

VISCOBETON does not have chlorides.

FIELD APPLICATION

VISCOBETON is mainly used to produce special concrete not segregable, to be used in underwater works.

It is used to produce concrete with light or heavy aggregates, obtaining homogeneous mixtures, not segregable, without bleeding, in easing the pumping and in case of piles, micropiles and cement injection grouts.

VISCOBETON does not modify the times of casting and it is suggested in all concrete made on the yard, pumped and transported.

ADVANTAGES

VISCOBETON is well used for underwater pourings, either in sweet or sea water, without washing out of the concrete at the fresh state, without aggregate segregation.

Concrete treated with VISCOBETON could be easily pumped also with reduced dosage of cement or when it is difficult to pump.

The additivated concrete with VISCOBETON is homogeneous, compact, improves mechanical strength, is a very good water proofing product against chemical-physical action, does not have bleeding phenomena, it is not segregable and easy to pour with reducing vibration times.

COMPATIBILITY

VISCOBETON is compatible with every type and class of cement and with other admixtures of *Draco Italiana S.p.A.* (for example AERBETON, RAPIDCRETE or FILLCRETE, submicronic amorphous silica).

Please contact our technicians before using other admixtures.

WORKABILITY ON TIME

The use of VISCOBETON permits to maintain workability, obtained after additivation, with a time variable from 1 to 2 hours at 20 °C, in relation of the dosage of cement used. The loss of workability happens gradually.

Practical tests in the yard allow to determine usage specifications.

MECHANICAL STRENGTH

VISCOBETON does not modify the setting times, but the mechanical strength are improved toward the same concrete of similar slump not additivated.

DOSAGE

VISCOBETON is dosed at 0.5÷0.6 kg every 100 kg of cement.

The average dosage is of 2 kg for every cubic meter of concrete.

HOW TO USE

Add gradually the product on the aggregates (on the conveyor), better if added on the cement put on the weighting hopper.

When underwater castings are made, the dosage of cement in the concrete must not be lower than 350 kg/m³ of R 425 cement.

Warning: the concrete additivated with VISCOBETON loose workability after its introduction, therefore, in order to obtain the initial consistancy (without VISCOBETON), prolong the mixing at the maximum of turning of the mixer for at least 8-10 minutes. Do not add water before verify the real consistancy (workability).

PACKAGING AND WAREHOUSING

VISCOBETON is packed in special bags of 25 kg each.

The perfect humidity proof is given by the original packing and the product could be kept in covered warehouse on pallets for over a year.

SPECIFICATION

All underwater works must be obtained as per the following specification.

The concrete must be additivated with VISCOBETON in order to give to the conglomerate homogeneous characteristics, without washing out and segregation.

VISCOBETON must be employed as per the recommendations of the producer, *Draco Italiana S.p.A.*, who will give upon request, technical assistance with qualified technicians.