



Rev 0
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UNICUM 49

New generation superplasticizing additive.
Highly effective water reducer for high-quality precast concrete



DESCRIPTION

UNICUM 49 being made of the highest quality poly-carboxylic polymers, due to its dispersing action, its characteristics and the good synergism of its components gives concrete a very high reduction in the w/c ratio allowing the production of superfluid concretes with high resistance to short and long curing. The product is particularly suitable for prefabrication and is available in summer and winter versions.

FEATURES

UNICUM 49 chloride-free, finds wide use in all works with strong reinforcement where it is essential to have superfluid concrete with a very low w/c ratio, homogeneous with high initial (as it accelerates cement hydration) and final strengths, as well as the achievement of excellent impermeability and great resistance to chemical aggression. This enables the making of superfluid rheoplastic and SCC (Self Compacting Concrete) rheodynamic concretes. with excellent workability retention, facilitating the making and placing of concretes in inaccessible places, facilitates pumping and always improves the adhesion of reinforcement bars. Evident decrease in hygrometric shrinkage, excellent aesthetic finish and increased durability.

ADVANTAGES

The strongly accelerating effect and the development of high strength at short curing times reduces or allows the elimination of steam treatment time. The use of UNICUM 49 makes it possible to obtain:

- at the same w/c ratio extremely more workable concretes;
- at equal workability high reduction in w/c ratio facilitated paving and immediate response of vibrating operations;
- reduced bleeding and improved surface finishes;
- reductions in setting times as a function of external and concrete temperatures;
- coaction of the superplasticizing capacity of the admixture and the increased hydration rate of the cement;
- reduction in the time required for stripping.

USES

It is used in all types of self-leveling, high-strength, structural precast and prestressed concrete where high w/c ratio reduction and extreme flowability are required.

PHYSICAL PROPERTIES

Physical status	liquid
Color	amber
Volume mass	1.045 ± 0.02 g/dm ³
pH (at 20 °C)	5 ± 1
Chloride	absent
Limit of use	-5°C

TECHNICAL DATA SHEET



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STORAGE

Valid for 12 months from the date of purchase, in tightly closed original packaging, out of direct sunlight, between 5 and 30°C.

LEGAL NOTICES

The information contained in this technical data sheet, while representing the most advanced stage of knowledge, does not exempt the user from carrying out accurate preliminary tests under the usual conditions of use and exercise. We therefore decline all responsibility for improper use of the product.

