



Rev 0
11/24



UNICUM 90

New generation superplasticizer additive, highly effective water reducer for high-quality precast concrete



DESCRIPTION

UNICUM 90 Being made up of poly-carboxylic polymers of the highest quality, due to its dispersing action, its characteristics and the good synergism of its components, it gives concrete a very high reduction in the w/c ratio, allowing the creation of superfluid concretes with high resistance to short and long curing.

The product is particularly suitable for prefabrication for winter climates.

FEATURES

UNICUM 90 Chloride-free, it is widely used in all works with strong reinforcement in which it is essential to have a super-fluid concrete with a very low w/c ratio, homogeneous with high initial (since it accelerates the hydration of the cement) and final resistances, as well as the achievement of excellent impermeability and great resistance to chemical aggression.

This allows the packaging of rheoplastic superfluid concretes and rheodynamic SCC (Self Compacting Concrete). with an excellent maintenance of workability, facilitating the packaging and installation of concrete in inaccessible places, it facilitates pumping and always improves the adhesion of the reinforcing rods. Evident decrease in hygrometric shrinkage, excellent aesthetic finish and increase in durability.

ADVANTAGES

The strongly accelerating effect and the development of high resistance to short curing reduce or eliminate the steam treatment time.

The use of allows you to obtain:UNICUM 90

- with the same A/C ratio, concretes that are extremely more workable;
- with the same workability high reduction of the A/C ratio
- facilitated installation and immediate response of vibration operations;
- reduction of bleeding and better surface finishes;
- reductions in setting times depending on external temperatures and concrete;
- the compulsion of the superplasticizing capacity of the additive and the higher hydration rate of the cement;
- reduction of formwork times.

APPLICATIONS

It is used in all types of self-levelling, high-strength concrete for structural and prestressed precasts, where a high reduction of the w/c ratio and extreme fluidity are required.

VALIDITY

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



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PHYSICAL PROPERTIES

Physical state	liquid
Color	light amber
Density	1.08 ± 0.02 g/cm ³
Ph (at 20 °C)	5 ± 1
Chlorides	Absent
Usage limit	- 5 °C

METHOD OF USE AND DOSAGE

UNICUM 90 It develops maximum effectiveness in terms of water reduction and homogenization of the concrete if added after the other components of the mixture have been loaded and well mixed, and at least 80% of the mixing water has been introduced.

Dosage by weight of cement: 0.4 – 1.2 %.

For higher dosages, to be used in specific applications, contact our technicians.

PACKS

25 kg plastic jerrycans
200 kg drums
1050 kg tanks
Loose in tanks.

Special automatic dosers can be supplied on request.

LEGAL

The information contained in this technical data sheet, although representing the most advanced stage of knowledge, does not exempt the user from carrying out accurate preliminary tests in his own conditions of use and operation. Therefore, no liability is accepted for improper use of the product.

CE

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TEKNA CHEM SPA
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EN 934-2

UNICUM 90

High Effective Water Reducer Concrete
Additive / Superplasticizer T 3.1 / 3.2
Maximum chloride content 0.1%
Maximum alkali content 0.5%

No hazardous substances

