



Rev 0  
03/23



# UNICUM 70 E

New generation superplasticizing additive, high efficiency water reducer for high quality prefabricated concrete



## DESCRIPTION

UNICUM 70 E being made up of poly-carboxylic polymers of the highest quality, for its dispersing action, its characteristics and the good synergism of its components gives the concrete a very high reduction of the a/c ratio allowing to create superfluid concretes with high resistance to short and long seasoning.

## FEATURES

UNICUM 70 E chloride-free, is widely used in all works with strong reinforcements in which it is essential to have a superfluid concrete with a very low a/c ratio, homogeneous with high initial resistance (since it accelerates the hydration of the cement) and final, 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 concretes in inaccessible places, it facilitates pumping and always improves the adherence of the reinforcing irons. Evident decrease in hygrometric shrinkage, excellent aesthetic finish and increased durability.

## ADVANTAGES

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

The use of UNICUM 70 E allows to obtain:


- with the same A/C ratio concretes that are extremely more workable;
- at equal machinability high reduction of the A/C ratio
- easy installation and immediate response of vibration operations;
- reduction of bleeding and better surface finishes;
- reduction of setting times depending on external temperatures and concrete;
- the coercion 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-leveling concrete, high strength, for structural and prestressed prefabricated, where a high reduction of the a/c ratio and extreme fluidity is required.

## VALIDITY

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



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**UNICUM 70 E**  
High Efficacy Water Reducer /  
Superplasticizer | Concrete Additive T 3.1  
/ 3.2  
Maximum chloride content 0.1%  
Maximum alkali content 0.5%  
Absent dangerous substances

SHEET



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## PHYSICAL PROPERTIES

Physical state	Liquid
color	Light amber
Density 1,0	$7 \pm 0,02 \text{ g/cm}^3$
Ph (at 20 °C)	$5.5 \pm 1$
Chlorin	exempt
Usage limit	+ 5 °C

## METHOD OF USE AND DOSAGE

UNICUM 70 E develops maximum effectiveness in terms of water reduction and homogenization of 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 on cement weight: 0.6 – 1.5%.

Recommended dosage: 1% on the weight of cement.

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

## PACKS

25 kg plastic jerry cans

200 kg drums

1050 kg tanks

Loose in tank.

*Special automatic dispensers can be supplied on request.*

## LEGAL

The information contained in this technical 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. We therefore decline any responsibility for the improper use of the product.

