



Rev 0  
05/19



# UNICUM 57 M

New generation superplasticizing additive, highly effective water reducer for high quality prefabricated precast concrete



## DESCRIPTION

UNICUM 57 M 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 gives concrete a very high reduction of the w/c ratio allowing superfluid concretes with high resistance to short and long curing.

## FEATURES

Chloride-free UNICUM 57 M finds wide use in all works with strong reinforcement where it is essential to have a 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 57 M makes it possible to achieve: - Extremely more workable concretes at equal workability; - At equal workability high reduction in w/c ratio; - Easier paving and immediate response of vibrating operations; - Reduced bleeding and better surface finishes; - Reductions in setting times depending on external and concrete temperatures; - The coaction of the admixture's superplasticizing capacity and the cement's higher hydration rate; - Reduced time for de-ashing.

## APPLICATIONS

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.

## VALIDITY

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

## PHYSICAL CHARACTERISTICS

Physical state	liquid
Color	amber
Volumic mass	1,05 ± 0,02 g/cm <sup>3</sup>
pH (at 20 °C)	5 ± 1
Chloride	None
Use limit	- 5 °C

# CE

TEKNA CHEM SRL - via Sirtori z.i. 20838  
Renate (MB) - ITALY

15 1305 – CPD – 1146  
EN 934-2 UNICUM 57 M

Additivo per calcestruzzo riduttore di  
acqua ad alta efficacia /  
superfluidificante T 3.1 / 3.2 Massimo  
contenuto di cloruri ..... 0.1%

Massimo contenuto di alcali ..... 0.5%  
Sostanze pericolose assenti

TECHNICAL DATA SHEET



TEKNA CHEM S.p.A.

Headquarters: Renate (MB) - Via Sirtori, z.i. 20838 - Tel. +39 0362.91.83.11

Web: www.teknachemgroup.com - E-mail: info@teknachemgroup.com - Fax: +39 0362.91.93.96

1/2



## METHOD OF USE AND DOSAGE

UNICUM 57 M develops maximum effectiveness in terms of water reduction and concrete homogenization if added after the other components of the mix have been loaded and well mixed, and at least 80% of the mixing water has been introduced. Dosage on cement weight: 0.6 to 1.5 percent Recommended dosage: 1 percent on cement weight For higher dosages, for use in particular applications, contact our technicians.

## CONFEZIONI

25 kg plastic canisters  
200 kg drums  
1050 kg cisterns  
Bulk in tanker

*Special automatic dispensers can be supplied upon request.*

## 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.

