

TECHNICAL DATA SHEET

UNICUM 57 E complies with the law EN 934-2

UNICUM 57 E

NEXT-GENERATION HIGHLY
FLUXING ADDITIVE
HIGH-EFFICIENCY
WATER REDUCER

DESCRIPTION

UNICUM 57 E being constituted by high-quality poly-carboxylic polymers, thanks to its dispersing action, its characteristics and the good synergy of its components it gives to the concrete a very high reduction of the w / c ratio allowing the realization of highly fluid concretes with a high resistance to short and long curing processes.

The product is particularly suitable for prefabrication in summer climates.

FEATURES

UNICUM 57 E is chloride-free and is widely used in all the works with heavy armor in which it is essential to have a superfluid concrete with a very low water / cement ratio, with high initial and final resistances (which will accelerate the hydration of cement) as well as an excellent impermeability and resistance to chemical attack.

This guarantees highly fluid rheoplastic concrete and the rheo dynamic SCC (Self Compacting Concrete), with an excellent workability, facilitating its packaging and installation in poorly accessible environments; facilitating also the pumping and always improving the adhesion of the irons to the armor. Noticeable decrease in the hygrometric shrinkage, excellent aesthetic finish and increased of durability.

BENEFITS

The strong accelerating effect and the high resistance to short curing processes, reduces or even eliminates the duration of the steaming treatment.

Using **UNICUM 57 E** helps obtaining:

- At equal w/c ratios, more workable concretes;
- At equal workability, a high reduction of w/c ratio;
- Easy installation and immediate reaction to vibrating operations;
- bleeding reduction and better surface finishing;
- reduction of setting times depending on the external temperatures of the concrete;
- the power of the additive highly fluxing capacity and a faster hydration of cement;
- Reduction of formwork's removal times.

APPLICATION

It is used for all types of self-leveling concrete, with high resistance, for pre-stressed and structural prefabrications, where a high reduction of the w/c ratio and an extreme fluidity is required.

VALIDITY

If kept in its sealed original container, away from sun light at a temperature between 5 and 30°C the product is valid for 12 months from date of manufacture.



PHYSICAL PROPERTIES

APPEARANCE:	LIQUID
COLOUR:	LIGHT AMBER
MASS DENSITY:	1,06 ± 0,02 g/cm ³
pH (a 20 °C):	5 ± 1
CHLORIDES	NONE
USE LIMIT:	- 5 °C

TYPE OF USE and DOSAGE

UNICUM 57 E if added after all the other components are loaded and well mixed, and at least 80 % of the mixing has been introduced, offers its maximum effectiveness in terms of water reduction and homogenization of concrete.

Dosage on the weight of cement: 0,6 – 1,5%

Recommended dosage: 1% wpc

For higher dosage, for special applications please contact our technical team.

PACKAGING

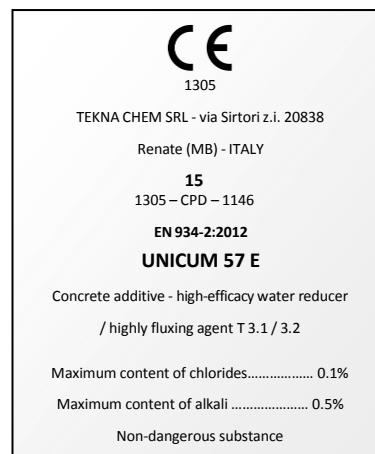
Plastic tanks of 25 kg

Barrel of 200 kg

IBC of 1050 kg

Bulk in IBC.

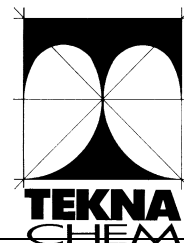
Special automatic dispensers can be provided on request



TEKNA CHEM S.r.l.

Factory: Renate (MB) - Via Sirtori, z.i. 20838 Tel.
+39 0362.91.83.11 Fax: +39 0362.91.93.96
E-mail: info@teknachem.it

The information provided in this data sheet, even if containing an advanced knowledge of the product, it doesn't exempt its users from performing accurate preliminary tests under the conditions of the product employment. Therefore, the company disclaims any responsibility for the improper use of the product.



TECHNICAL DATA SHEET

UNICUM 57 M complies with the norm EN 934-2

UNICUM 57 M

NEXT-GENERATION HIGHLY
FLUXING ADDITIVE
HIGH-EFFICIENCY
WATER REDUCER

DESCRIPTION

UNICUM 57 M being constituted by high-quality polycarboxylic polymers, thanks to its dispersing action, its characteristics and the good synergy of its components it gives to the concrete a very high reduction of the w / c ratio allowing the realization of highly fluid concretes with a high resistance to short and long curing processes.

The product is particularly suitable for prefabrication in mild climates.

FEATURES

UNICUM 57 M is chloride-free and is widely used in all the works with heavy armor in which it is essential to have a superfluid concrete with a very low water / cement ratio, with high initial and final resistances (which will accelerate the hydration of cement) as well as an excellent impermeability and resistance to chemical attack.

This guarantees highly fluid rheoplastic concrete and the rheo dynamic SCC (Self Compacting Concrete), with an excellent workability, facilitating its packaging and installation in poorly accessible environments; facilitating also the pumping and always improving the adhesion of the irons to the armor. Noticeable decrease in the hygrometric shrinkage, excellent aesthetic finish and increased of durability.

BENEFITS

The strong accelerating effect and the high resistance to short curing processes, reduces or even eliminates the duration of the steaming treatment.

Using **UNICUM 57 M** helps obtaining:

- At equal w/c ratios, more workable concretes;
- At equal workability, a high reduction of w/c ratio;
- Easy installation and immediate reaction to vibrating operations;
- bleeding reduction and better surface finishing;
- reduction of setting times depending on the external temperatures of the concrete;
- the power of the additive highly fluxing capacity dell'additivo and a faster hydration of cement;
- Reduction of formwork's removal times.

APPLICATION

It is used for all types of self-leveling concrete, with high resistance, for pre-stressed and structural prefabrications, where a high reduction of the w/c ratio and an extreme fluidity is required.

VALIDITY

If kept in its sealed original container, away from sun light at a temperature between 5 and 30°C the product is valid for 12 months from date of manufacture.



PHYSICAL PROPERTIES

APPEARANCE:	LIQUID
COLOUR:	LIGHT AMBER
MASS DENSITY:	1,05 ± 0,02 g/cm ³
pH (a 20 °C):	4,5 ± 1
CHLORIDES	NONE
USE LIMIT:	- 5 °C

TYPE OF USE and DOSAGE

UNICUM 57 M if added after all the other components are loaded and well mixed, and at least 80 % of the mixing has been introduced, offers its maximum effectiveness in terms of water reduction and homogenization of concrete.

Dosage on the weight of cement: 0,6 – 1,5%

Recommended dosage: 1% wpc

For higher dosage, for special applications please contact our technical team.

PACKAGING

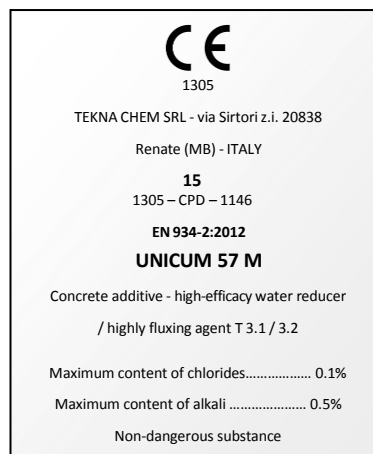
Plastic tanks of 25 kg

Barrel of 200 kg

IBC of 1050 kg

Bulk in IBC.

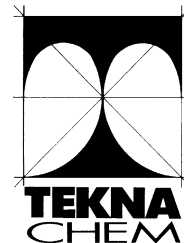
Special automatic dispensers can be provided on request



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UNICUM 57

NEW GENERATION
HYPERFLOWING ADDITIVE
HIGH EFFICIENCY WATER REDUCER
FOR HIGH QUALITY PREFABRICATED CONCRETES

DESCRIPTION

UNICUM 57 thanks to its high quality poly-carboxylic polymers, to its dispersing action, its characteristics and the good synergy of its components, confers to concrete a very high reduction of w/c ratio facilitating the realization of fluid concretes with high resistances to short and long curing. The product is particularly suitable for prefabrication typical of winter climates.

FEATURES

UNICUM 57 is chloride-free and is widely used in all the works with heavy armor, which require a superfluid and homogeneous concrete with a very low water/cement ratio, with high final and initial resistance (which will accelerate the hydration of cement). It is also used for those concretes with excellent impermeability and high resistance to chemical aggression.

This allows the packaging of highly fluid, rheoplastic concretes and rheodynamic SCC (Self Compacting Concrete), maintaining an excellent workability, facilitating its packaging and installation also in poorly accessible places, simplifying the pumping and improving the adhesion to the iron armor. This product guarantees a noticeable decrease of the hygrometric shrinkage and an excellent aesthetic finishing as well as a better durability.

BENEFITS

Its strong accelerating effect and its high resistance to a short curing process, reduces or totally excludes the steam treatment process.

The use **UNICUM 57** helps obtaining:

- In equal ratio of w/c the concrete is much workable;
- In equal terms of workability the w/c ratio is higher;
- Easy installation and immediate response to vibration operations;
- Bleeding reduction and better superficial finishing;
- Reduction of the setting time depending on the external temperatures and to the concrete;
- a highly flowing capacity of the additive and a higher speed in the hydration of cement;
- Reduction in the times of dismantlement.

APPLICATIONS

It is used in all types of high-resistance self-leveling concretes. It is ideal for structural and pre-stressed prefabricated, and for those cases that require a high reduction of the w/c ratio and an extreme fluidity.

VALIDITY

Valid for 12 months from the date of purchase, in closed containers, away from direct sunlight, between 5 and 30 ° C.



PHYSICAL PROPERTIES

PHYSICAL STATE:	LIQUID
COLOUR:	LIGHT AMBER
DENSITY:	1,06 ± 0,02 g/cm ³
pH (a 20 °C):	5 ± 1
CHLORIDES:	ABSENT
USAGE LIMIT:	- 5 °C

TYPE OF APPLICATION AND DOSAGE

UNICUM 57 is able to develop its maximum effectiveness in terms of water reduction and homogenization of the concrete when added after all the other components have been loaded and well mixed, and after at least 80% of the mixing has been introduced.

Dosage by weight of cement: 0,6 – 1,5%

Recommended dosage: 1% by weight of cement

For higher dosages for special applications, please contact our technical assistance.

PACKAGING

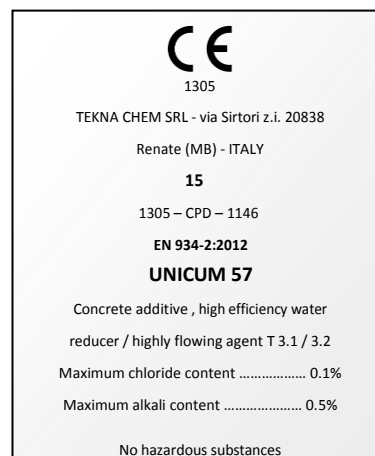
Plastic tanks of 25 kg

Barrels of 200 kg

Cisterns of 1050 kg

Loose in cisterns.

Special automatic dosing units can be provided upon request.



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