



# IKSA Construction Chemicals & Concrete Additives

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## POLYCAR-300

SUPERPLASTICIZER FOR CONCRETE & HIGH DEGREE WATER REDUCER

### DESCRIPTION

POLYCAR-300 is a high degree water reducer and superplasticizer additive for concrete. It increases the early strength of the concrete.

### STANDARTS

POLYCAR-300 conforms to ASTM C 494 Type F and EN 934-2 Table:3.1 and 3.2 High Range Water Reducing/Super Plasticizing admixture. POLYCAR-300 is signed with the CE marking according to the technical requirements of the European Standard EN934-2:2001+A2:2005. Certification No: 1783-CPD-001

### APPLICATION

POLYCAR-300 is used widely for the applications at which:

- The section to be placed without voids and neat outer surface is important.
- High strength is required, early from release is desired, and higher pumpability is preferred, as prestressed concrete.
- Requirement of gauging water can be reduced by 20% with correct mix design and monitoring, minimizing segregation risk in fresh concrete. With respect to reduction of the gauging water, increases the compressive strength by minimum 40% in one day and by 15% in 28 days.
- When mixed into ready mix concrete perfect workability is obtained and causes reduction of the requirement for vibration in compaction.
- Used specially for precast applications

### ADVANTAGES:

- Regarding the dosage used requirement of gauging water can be reduced by 12%-25%.
- Regarding the dosage used minimizes the slump losses.
- Increases the workability time without the risk of segregation.
- Gauging water requirement can be reduced without affecting the workability.
- Respect to the reduction of gauging water, increases the final strength.
- During setting of the concrete, increases the reaction rate of strength gain.
- Stops unnecessary air entrainment into the concrete in order to form homogeneous and compact concrete.

### METHOD OF APPLICATION

Considering cement and aggregate properties and dosage, together with slump and strength increase required. Useful dosage is between 1 to 3% of cement by weight. The optimum dosage should be determined through the tests at jobsite.

### PHYSICAL PROPERTIES

Type	: Polycarboxylate based.
Appearance	: Light brown colored liquid
Density (ca.)	: 1,1±0,02kg/L
pH	: 4,50 – 6,00
Na <sub>2</sub> O equivalent	: ≤ 10% (EN 480-12)

### PACKING

POLYCAR-300 is supplied in 30kg plastic, 200kg steel drums, 1100kg cubitainers and bulk.

### STORAGE

POLYCAR-300 has 1 year shelf life in sealed and undamaged containers. The storage is to be done in places protected against freezing. Very slow thawing is possible with less than 50°C never through direct flame.

### SAFETY

POLYCAR-300 is a nontoxic material. No special precaution is required during handling. For detailed information MSDS is available.

Regarding the design, development, production and distribution of its products, IKSA is certified and applies the quality assurance system ISO 9001. In addition, IKSA Integrated Management System involves ISO 14001 and ISO 18001. Certificate Numbers: 12 300 0334 – 12 104 34115 TMS – 12 400 0023

*The details for our products and their possible uses indicated above should be understood as advisory only, to the best of our knowledge. The details do not constitute any guarantee or legal commitment and must be verified for each individual application.*