

VISCOSTAR 6K

Efficient viscosity modifying admixture used in the production of self-compacting concrete



DESCRIPTION OF THE PRODUCT

Viscostar 6K is a liquid admixture, specially formulated for use in the production of ready-mixed and precast concrete which requires high fluidity with no segregation. Control of the viscosity achieved using **Viscostar 6K** allows for the production of self-compacting concrete with little or no fillers.

WHERE TO USE

Due to its special, innovative formulation, **Viscostar 6K** represents a real breakthrough in the construction industry, in that, by modifying the dosages applied, it is possible to reach performance levels which solve three specific problems and/or requirements:

- Improvement of pumping action of concrete.
- Integration of fine and very fine particles in the production of concrete with crushed aggregates or with low doses of cement.
- Production of self-compacting concrete which conforms to current norms and standards regarding fluidity, slump and resistance to segregation without adding minerals (fillers).

TECHNICAL CHARACTERISTICS

Viscostar 6K is an active polymer-based admixture in a water solution, which allows tight control of the cohesion of the cementitious paste, and the production of self-compacting, cementitious mixtures with reduced content of ultrafine particles. Due to the product's high efficiency, **Viscostar 6K** avoids segregation and bleeding of the concrete, and helps maintain the fluidity and passing ability of the concrete.

COMPATIBILITY WITH OTHER PRODUCTS

Viscostar 6K is compatible with other admixtures used in the manufacture of high-quality concrete, and especially with:

- Admixtures from the **Dynamon**-range, to make mixtures with a low water/cement ratio, long workability times and/or quick development of the concrete's mechanical properties after short curing times.
- **Mapect** setting and hardening accelerator admixtures to reach high mechanical strength after short curing times, even in cold weather.
- **Mapect**, retarders to control the setting of concrete.
- **Mapect** form release compounds, used for stripping concrete from moulds.

HOW TO USE

Add **Viscostar 6K** in the cement mixer after all the other ingredients (cement, aggregates, water and acrylic super-plasticising admixture). Mix until a homogenous mix is obtained.

CONSUMPTION

Dosage in volume:

- From 0.5 to 1 l per m³ of concrete when used as a pumping aid.
- From 1 to 3 l per m³ of concrete when used as a mix improver for poor quality sand.
- From 1 to 4 l per m³ of concrete when used instead of mineral admixture in self-compacting concrete.

PACKAGING

Viscostar 6K is available in 25 l cans, 200 l drums and in 1000 l IBC containers.

STORAGE

Viscostar 6K may be stored for 6 months in sealed containers. Protect from frost. The product must be stirred before use.

SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website www.mapei.no

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Consistency:	liquid
Colour:	green
Viscosity:	easy flowing; < 30 mPa·s
Dry solids content:	6 ± 0.5 %
Density:	1.02 ± 0.02 g/cm ³
pH:	11 ± 1
Chloride content:	< 0.3 %
Alkali content (Na ₂ O-equivalents):	< 1.0 %

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above - information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the technical data sheet, available from our web site www.mapei.no

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