



MC-TechniFlow® FK02

(Formerly Known as Muraplast FK 02)

High Performance Retarding Superplasticizer based on Blended PCE Polymers

Product Properties

- Chloride free
- Non-Toxic and Non inflammable
- Substantial increase of early and final strength
- Improvement in rheological properties
- Substantial amount of water reduction

Areas of Application

- RMC Concrete
- Batching Plants
- As a retarding super plasticizer for ready-mix concrete
- For structures requiring long slurry retention period
- Concrete with resistance from aggressive agents

Application Notes

General

TechniFlow FK 02 is a high range water reducing super plasticizer with slump retention properties especially formulated for concretes designed for medium to higher strengths. The super plasticizer based on selected PCE Combined polymers and additives is free from chlorides and aids concretes in attaining good early and final strengths. The concretes with **TechniFlow FK 02** are homogenous and free from bleeding and segregation. The super plasticized concretes are pumpable and require minimum compaction

Advantages

TechniFlow FK 02 is suitable for use in ready-mix concrete plants, pre-cast industry, mass concreting, marine and massive structures where retention of slurry is necessary to keep the concrete workable for a longer period. Properly designed concrete produces a very homogenous concrete, which is easily workable without bleeding and segregation

It has high water reduction capacity, which helps in achieving High early strength of the concrete

Instruction for Use

TechniFlow FK 02 is to be added to the concrete during mixing & should preferably be dosed along with mixing water or additional water. Adding **TechniFlow FK 02** to the dry aggregate/cement mix is not recommended. It is most effective when dosed after about 80% of the mixing water has been added to concrete.

The mixing time after addition of the admixture should be long enough to allow the admixture to unfold its plasticizing effect completely.

If dosage on the job-site into transit mixer trucks is necessary, please follow corresponding engineering and safety rules.

TechniFlow FK 02 can be used in combination with other MC-admixtures

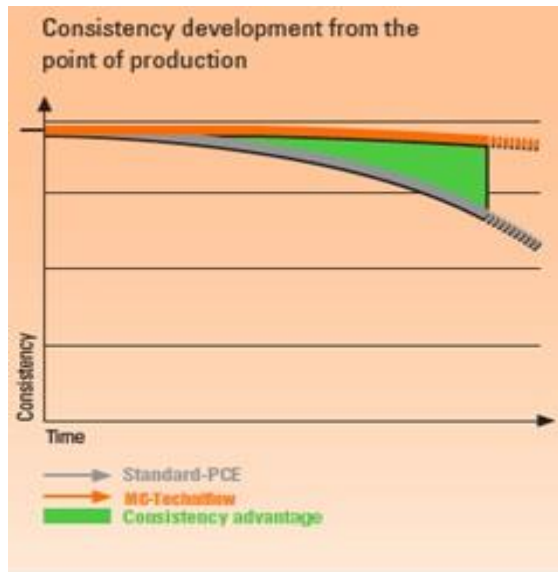
Dosage

TechniFlow FK 02 is generally added between 0.3-2.0% by wt of cement for flow concrete depending on the workability, water reduction and retardation requirement for individual job site. However, it is recommended that site trials be taken to determine optimum dosage. In certain cases due to variations of cement, sand aggregates, weather or site conditions dosages may vary from recommendations

Please consult MC Engineers for further information and technical support

Please note the "General Information on the Use of Concrete Admixtures". To determine the individual technical suitability, preliminary tests should be carried out under application conditions. Dosages may vary from recommendations, based on actual site conditions, materials, temperatures and equipment's.

Further Instructions / Precautions



- To determine individual technical suitability, preliminary tests should be carried out under application conditions. We shall be glad to assist you for your concrete technology testing/needs.
- Relevant standards for production, placing and curing of concrete should be followed.
- Efficient curing is essential for any concrete and is best-achieved using **Emcoril** range of curing compound. This will avoid negative effects of quick water loss from the concrete.
- Depending upon the concrete mix severe over dosage of the admixture especially retarding plasticizers and superplasticizers may result in bleeding/segregation of concrete quick loss of workability, extended initial and final setting times etc.
- Slight overdosing may not severely affect the ultimate strength of concrete provided the concrete is properly mixed, handled and placed and adequately compacted and cured

Technical Data For MC-TechniFlow® FK02

Characteristic	Unit	Value*	Comments
Density	Kg/dm ³	Approx. 1.080	±0.03
Recommended Dosage	%	0.3 to 2	As Per weight of Cementitious Compound
Max. Chloride Content	% by Weight	< 0.1	-
Max. Alkali Content	% by Weight	< 1.0	-

Product Characteristics for MC-TechniFlow® FK02

Type of Product	PCE Combination Based Superplasticizer
Form	Liquid
Colour	Light Brown
Shelf Life	12 Months from date of Manufacture
Delivery	230 kg Barrels, 30 kg Cans
Storage	In Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost
Disposal	Empty packs completely and dispose off carefully to protect our Environment

Safety Advice

Please Take notice of the safety information and advice given on the packaging labels, safety information sheets and General Application Advice.

Note: - The information on this Data Sheet is based on our experiences and correct to the best of our knowledge. It is However, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our Data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are binding if given in written form. The accepted engineering rules must be observed at all times.

Edition: - MC/IND/R0/SEP2020, Some Technical Changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.