



EmcePlast BV

Chloride-free concrete plasticizer and/or water reducing agent

Product Properties

- Increases slump at low dosage
- Improves strength
- Reduces water requirement by lowering the surface tension of mixing water.
- Very Economical
- Chloride free
- Improvement in rheological properties

Areas of Application

- For site produced concrete
- For ready-mix concrete
- Suitable for pre-stressed concrete
- Can be used with all standard cement types
- Compatible with all other MC-Admixtures

Application Notes

General

EmcePlast BV is a concrete plasticizer and water reducing agent used to produce concrete of good workability. It is suitable for both, site produced and ready mixed concrete where high workability is required.

EmcePlast BV is chloride free and contains no substances that damage the concrete or reinforcement.

Advantages

The Concrete produced with **EmcePlast BV** are homogeneous and free from bleeding. No additional air is entrained and segregation is avoided.

EmcePlast BV lowers the surface tension of the mixing water. As a result the cement and aggregates are more effectively soaked. This leads to a considerable reduction in the amount of mixing water required.

EmcePlast BV increases the compressive strength of the concrete. It can be used to bring about an appreciable reduction in the amount of mixing water required, while maintaining good workability thereby increasing the compressive strength of the concrete.

Instructions for Use

EmcePlast BV is to be added to the concrete during mixing & should preferably be dosed along with mixing water or the additional water. Adding **EmcePlast BV** to the dry aggregate/cement mix is not recommended. It is most effective when dosed after about 70% 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 & safety rules.

EmcePlast BV can be used with all standard cement types. Add **EmcePlast BV** during the mixing operations. Alternatively, it can be added to the mixing water. Attention should be paid to the ASTM, BS, DIN, and IS specifications relating to mixing times and general conditions for the production, application, and curing of concrete and pre-stressed concrete.

Dosage

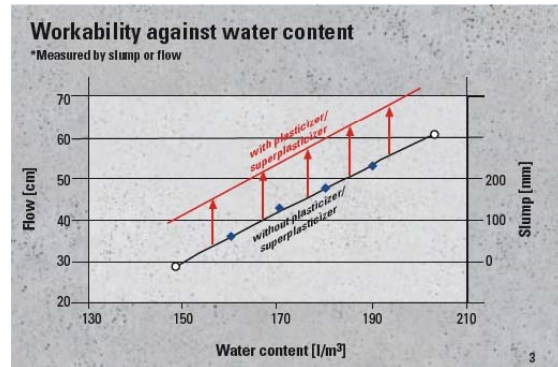
Recommended dosage of **EmcePlast BV** is 0.15 - 0.3 % by weight of cement. However it is recommended that site trials be taken to determine optimum dosage.

In certain cases due to variations of cement, sand, aggregates, weather or site condition dosages may vary from recommendations. **EmcePlast BV** can be used in combination with other MC Admixtures.

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 & curing of concrete should be followed.
- Efficient curing is essential for any concrete and is best-achieved using **Emcoril** range of curing compounds. 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 & super plasticizers may result in bleeding/ segregation of concrete, quick loss of workability, extended initial & 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.

Graph Showing Workability of Concrete versus the Water content of the mix with and without use of Superplasticizers



Technical Data For EmcePlast BV

Characteristic	Unit	Value	Comments
Mixing ratio	% by weight of cement	0.15% to 0.3%	Depending upon application

Product Characteristics for EmcePlast BV

Type of Product	Concrete Plasticizer
Form	Liquid
Colour	Brown
Shelf Life	12 Months from date of Manufacture
Delivery	230kg drums and 30kg 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

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 may differ from the data contained in our information sheets, are only binding if given in written form. The accepted engineering rules must be observed at all times. E. & O.E.

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