

## PRODUCT DATA SHEET

# SikaPlast<sup>®</sup>-204 CMC

## PCE BASED SUPERPLASTICIZING AND SET RETARDING CONCRETE ADMIXTURE

### DESCRIPTION

SikaPlast<sup>®</sup>-204 CMC is a 3rd generation polymer based high performance superplasticizer for producing soft consistency concrete.

### USES

SikaPlast<sup>®</sup>-204 CMC is mainly suitable for the manufacture of concrete for RMC plants and site batch concrete.

SikaPlast<sup>®</sup>-204 CMC is used for the following types of concrete:

- High strength bored piles
- Bridges and cantilever
- Slender components with dense reinforcement

### CHARACTERISTICS / ADVANTAGES

SikaPlast<sup>®</sup>-204 CMC combines different modes of actions. By absorption on the surface of the fines and keeping them apart while the hydration is in progress, SikaPlast<sup>®</sup>-204 CMC effects the following concrete properties:

- Long slump keeping and high water reduction
- High flowability (considerably reduced placing and compacting work)
- Faster evolution of early strength development
- Workability can be maintained up to 4-6 hours (still depends on admixture dosage, cement type, temperature)
- Improved creep and shrinkage resistance characteristics

SikaPlast<sup>®</sup>-204 CMC contains neither chlorides nor other corrosion inducing substances and can therefore be used without any restrictions for reinforced concrete structures.

### APPROVALS / CERTIFICATES

SikaPlast<sup>®</sup>-204 CMC meets the requirements of ASTM C494 Type G.

### PRODUCT INFORMATION

Composition	Modified Poly carboxylate in water
Packaging	200 L / 1000 L
Appearance / Colour	Liquid/ brownish colour
Shelf life	Min. 1 year if stored properly in original unopened packaging
Storage conditions	Dry, cool, shaded place (between 5 and 30 celcius degrees)
Density	1.13 - 1.16 kg/litre.
pH-Value	5 - 8
Recommended Dosage	0.5 to 2.0 L per 100 kg of cement. <b>Typical Dosage:</b> 0.7 to 1.1 L per 100 kg of cement.

## Compatibility

SikaPlast®-204 CMC may be combined with all Sikament, Sika® Aer, Sika® Pump, Sikacrete® PP1 products, but must be added separately to the mix and not premixed prior its addition.  
SikaPlast®-204 CMC is compatible with all Portland Cement types.

## Dispensing

### Addition/Mixing

SikaPlast®-204 CMC is added to the gauging water prior to its addition to the dry mix or added separately to the wetted concrete mix. For optimum utilization of the ultrahigh range water reducer we recommend a minimum wet mixing time of 60 seconds. When adding the balance of the batching water to adjust concrete consistency this should be done after a minimum of 2/3 of the wet mixing time to avoid surplus water in the concrete.

### Concrete Placing

With the use of SikaPlast®-204 CMC, concrete of highest quality is being produced, however state of the art Concrete technology, such as mixing, placing vibrating and curing must be respected and applied.

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

## ECOLOGY, HEALTH AND SAFETY

### LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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### PRODUCT DATA SHEET

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