



PRODUCT DATA SHEET

Sika® Plastocrete®-10 N

WATER REDUCING ADMIXTURE FOR CONCRETE

PRODUCT DESCRIPTION

Sika® Plastocrete®-10 N is a new generation, synthetically manufactured, water reducing normal set admixture for concrete. Sika® Plastocrete®-10 N provides a more plastic and flowable concrete, greater uniformity, increased durability, and reduced shrinkage and permeability in concrete.

WHERE TO USE

- Recommended for use in all types of concrete including plain, reinforced, paving, precast and prestressed concrete
- Especially effective in concrete containing pozzolanic materials such as fly ash, silica fume and slag

CHARACTERISTICS / ADVANTAGES

- Calcium chloride-free admixture
- Increases workability and easier placeability

PRODUCT INFORMATION

CSC MasterFormat®	03 05 00
Packaging	205 L (54 US gal.) drum 1040 L (275 US gal.) IBC Bulk delivery
Shelf Life	1 year when stored in dry warehouse conditions at temperatures between 5 °C and 27 °C (40 °F and 80 °F).
Storage Conditions	Store at temperatures above 5 °C (40 °F). If frozen, thaw and agitate thoroughly to return to normal state. Protect from direct sunlight.
Appearance / Colour	Liquid / Light brown
Specific Gravity	Approx. 1.2

- Improves finishing characteristics for flatwork
- Easier and faster pumping of concrete
- Reduces shrinkage and cracking
- Reduces segregation at a given slump
- Reduces permeability
- Increases concrete durability and uniformity
- Improves appearance of architectural concrete
- Increases strength at all ages

ENVIRONMENTAL INFORMATION

- Conformity with LEED®v4 MR Credit (Option 1): Building Product Disclosure and Optimization – Environmental Product Declarations

APPROVALS / CERTIFICATES

- Sika® Plastocrete®-10 N meets or exceeds the requirements of ASTM C494, Types A, B, D and CSA A23.1-00.

APPLICATION INFORMATION

Recommended Dosage

The recommended dosage range is 100-325 mL/100 kg (1.5-5.0 fl. oz/100 lb) of cementitious material. When used at a dosage rate of 230-325 mL/100 kg (3.5-5.0 fl. oz/100 lb) of cementitious material, Sika® Plastocrete®-10 N performs as a set-retarding admixture for concrete. Trial batches should be conducted in order to establish the correct dosage of Sika® Plastocrete®-10 N in order to attain the required slump. Contact your Sika Canada Technical Sales Representative for further information.

Mixing

For best plasticizing results, Sika® Plastocrete®-10 N should be added directly to freshly mixed concrete in the concrete mixer at the end of the batching cycle. It may also be dispensed as an integral material during the regular admixture batching cycle or into freshly mixed concrete in a ready-mix truck at the concrete plant or job site. To optimize the superplasticizing effect, Sika recommends that the combined materials be mixed for 80-100 revolutions, either in the concrete mixer or in the ready-mix truck.

Combination with other admixtures: Sika® Plastocrete®-10 N is highly effective as a single admixture or in combination with other admixtures. When used in combination with other admixtures, dispense each admixture separately into the concrete. Do not mix with dry cement. Contact your local Sika Canada Representative.

Combination with pozzolanic materials: Sika® Plastocrete®-10 N can be successfully used in mix designs utilizing pozzolanic materials such as fly ash and GGBFS

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

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 exact product data and uses.

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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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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Product Data Sheet

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