

# Plastocrete® - 10N

## Water Reducing Admixture

**Description** Plastocrete-10N is a new generation, synthetically manufactured, water-reducing normal set admixture for concrete. Plastocrete-10N provides a more plastic and flowable concrete, greater uniformity, increased durability, and reduced shrinkage and permeability in your concrete. Plastocrete-10N meets the requirements of ASTM C 494, Type A, B and D admixture.

**Applications** Since Plastocrete-10N is calcium chloride free, it is recommended for use in all types of concrete including plain, reinforced, paving, precast and pre-stressed concretes.

Plastocrete-10N is especially effective in concretes containing such pozzolanic materials as fly ash, silica fume and slag.

- Advantages**
- Increased workability and easier placeability.
  - Improved finishing characteristics for flatwork.
  - Easier and faster pumping of concrete.
  - Reduced shrinkage and cracking.
  - Reduced segregation at a given slump.
  - Reduced permeability.
  - Increased concrete durability and uniformity.
  - Improved appearance of architectural concrete.
  - Increased strength at all ages.

### How to Use

**Dosage** The recommended dosage range for Plastocrete-10N is 1.5 to 5.0 ounces per 100 lbs. (100 to 325 ml/100kg) of cementitious material. Various concrete materials, slump, ambient air temperature, additions of pozzolanic materials, mixing time, and type and brand of cement will affect dosage rates.

When used at a dosage rate of 3.5 to 5.0 ounces per 100 lbs. (230 to 325 ml/100kg) of cementitious material, Plastocrete-10N performs as a set-retarding admixture for concrete.

Dosage rates outside the recommended range may be used where specialized materials such as microsilica are specified, extreme ambient conditions are encountered or unusual project conditions require special consideration.

In this case please contact your local regional Sika office or Sika Technical Service Department at 1-800-933-7452 for further information.

**Mixing** For best plasticizing results, Plastocrete-10N should be added directly to freshly mixed concrete in the concrete mixer at the end of the batching cycle. Plastocrete-10N 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:** Plastocrete-10N 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. Please contact your local regional office or Technical Service Department at 1-800-933-7452 for further information.

**Combination with Pozzolanic Materials:** Plastocrete-10N can be successfully used in mix designs utilizing pozzolanic materials such as fly ash and GGBFS.

<b>Packaging</b>	Plastocrete-10N is available in 55 gallon drum (208 liter), 275 gallon totes (1040 liters) and bulk delivery.
<b>Storage and Shelf Life</b>	Plastocrete-10N should be stored at above 40°F (5°C). If frozen, thaw and agitate thoroughly to return to normal state.  Shelf life when stored in dry warehouse conditions between 50°F and 80°F(10°C - 27°C) is one year.
<b>Typical Data</b>	
<b>Appearance</b>	Dark Brown aqueous solution.
<b>Specific Gravity</b>	Approx. 1.20
<b>Caution</b>	<b>WARNING: IRRITANT.</b> Contains Glycerol ( CAS: 56-81-5). May cause eye/skin/respiratory tract irritation. May cause gastrointestinal disturbance if swallowed.
<b>Handling and Storage</b>	Avoid direct contact. Wear personal protective equipment (chemical resistant goggles/gloves/clothing) to prevent direct contact with skin and eyes. Use only in well ventilated areas. Open doors and windows during use. Use a properly fitted NIOSH respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing and launder before reuse.
<b>First Aid</b>	<b>Eyes</b> – Hold eyelids apart and flush thoroughly with water for 15 minutes. <b>Skin</b> – Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. <b>Inhalation</b> – Remove to fresh air. <b>Ingestion</b> – Do not induce vomiting. Dilute with water. Contact physician. <b>In all cases contact a physician immediately if symptoms persist.</b>
<b>Clean Up</b>	Use personal protective equipment (chemical resistant gloves/goggles/clothing). Without direct contact, sweep up spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with applicable local, state, and federal regulations.

**KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • FOR INDUSTRIAL USE ONLY**

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Quality Certification Numbers: Lyndhurst: FM 69711 (ISO 9000), FM 70421 (QS 9000), Marion: FM 69715, Kansas City: FM 69107, Santa Fe Springs: FM 69408

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