Product Data Sheet
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Identification no.
Plastiment ES

Construction

Plastiment® ES

Water-reducing and Retarding Admixture

Description

Plastiment ES is a water-reducing and retarding admixture. Plastiment ES meets the requirements of ASTM C-494 as Types B and D and AASHTO M194 Types B and D admixture.

Applications

Plastiment ES should be used when a controlled delay in set time or increase in slump life of concrete is desired. Plastiment ES can be utilized in concrete used for flatwork and horizontal or vertical slipform placements. Use of Plastiment ES provides a superior surface finish.

Benefits

- Improves slump life and delays set time of concrete
- Slows down the rate of cement hydration reaction and controls concrete temperature
- Provides sufficient time for proper placement and finishing of concrete without cold joints in hot weather conditions
- In flatwork applications, Plastiment ES acts as a finishing aid, improves workability, controls bleeding and provides a superior surface finish
- In mass concrete pours, Plastiment ES controls temperature rise and reduces the risk of thermal cracking
- Reduces permeability and enhances durability by allowing to reduce the water cement ratio
- Improves early and later age compressive and flexural strength
- Improves homogeneity in the mix and reduces chances of segregation.

Refer to ACI 305R Hot Weather Concreting for more information. Plastiment ES does not contain calcium chloride or any other intentionally added chlorides.

How to Use

Dosage

Dosage rates will vary depending on factors such as materials used, concrete temperature, ambient temperature and specific requirements of the project.

For general concrete applications, Sika recommends a dosage rate of 2 - 4 fl. oz./100 lbs. (130-260 ml/100 kg) of cementitious materials. Exact dosages for a particular application should be determined by conducting trial mixes. Dosages outside the recommended range can be used to meet specific project requirements after conducting trial mixes.

For more information please contact your local regional office or technical service department at 1-800-933-7452.

Mixing

Add Plastiment ES at the concrete plant. Measure required quantity manually or by automated dispenser. Add into the water line at the batch plant or directly into the concrete at the end of the mixing cycle. Do not mix with dry cement.

Combination with other admixtures: Plastiment ES is compatible with other Sika admixtures. When used in combination with other admixtures, each admixture should be added to the concrete separately.

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Packaging	Plastiment ES is available in 55 gallon drum (208 liter), 275 gallon totes (1040 liters) and bulk delivery.
Storage and Shelf Life	Plastiment ES 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 40°F and 80°F (5°C - 27°C) is one 1 year.

Typical Data

Appearance	Brown Liquid
Specific Gravity	Approximately 1.2
CAUTION:	**IRRITANT.** Contains Carbohydrates (Mixture). Slightly irritating to the eyes and skin.
Handling and Storage	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.
First Aid	**Eyes –** Hold eyelids apart and flush thoroughly with water for 15 minutes. **Skin –** Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. **Inhalation –** Remove to fresh air. **Ingestion –** Do not induce vomiting. Dilute with water. Contact physician. **In all cases contact a physician immediately if symptoms persist.**
Clean Up	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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