**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 slip form 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.
Concrete

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.

Packaging

Plastiment® ES is available in 55 gallon drums (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 year.

Typical Data

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Brown Liquid</th>
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<tr>
<td>Specific Gravity</td>
<td>Approx. 1.17</td>
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Keep container tightly closed • Keep out of reach of children • Not for internal consumption • For industrial use only • For professional use only

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Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer’s sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

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