

Product Data Sheet

Edition 10.2005

Identification no. 161

Plastocrete 161

Plastocrete® 161

Water Reducing Admixture

Description	Plastocrete 161 is a lignin polymer-type water-reducing admixture. Plastocrete 161 meets the requirements of ASTM C-494 Types A, B and D.
Applications	Plastocrete 161 is recommended for use in all applications where high quality concrete with superior workability is required.
Advantages	<p>Plastocrete 161 water reducing admixture provides an economical and highly effective means of reducing the amount of mixing water required to produce concrete of a certain slump by acting as a dispersant for the cement particles in the mix.</p> <p>Through this dispersing action more of the surface area of the cement particles is available for early hydration. The more cement particles hydrated by contact with the mixing water, the greater the compressive strength of the concrete.</p> <p>Plastocrete 161 is formulated as a Type A water reducer to allow up to 10% water reduction and maximize the benefits of increased hydration in both the hardened and plastic states.</p> <ul style="list-style-type: none">■ Reduced water content required to achieve desired slump, increases compressive and flexural strengths and allows the use of more economical mixes.■ Improved paste quality makes concrete easier to pump and finish.■ Consistent normal setting times throughout the recommended dosage.■ Lower water cement ratios provide decreased permeability and increased durability.■ Plastocrete 161 does not contain intentionally added chlorides and will not initiate nor promote the corrosion of steel in the concrete.

How to Use

Dosage

Dosage rates will vary depending on the material used, ambient conditions and the requirements of a specific project.

For general concreting applications, Sika recommends a dosage rate between 2-4 fl.oz./100 lbs. (130-260 ml/100 kg) of cementitious materials for normal setting characteristics. Dosage rates of 4-6 fl.oz./100 lbs. (260-390 ml/100 kg) of cementitious materials are recommended for applications where higher water reduction is needed as well as extended workability and prolonged setting times.

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.

Construction



Sika®

Mixing	Plastocrete 161 is added at the concrete plant. Measure required quantity manually or by automated dispenser. Add into the water line at the batch plant or to the mixer at the end of the batching cycle. Combination with other Admixtures: Plastocrete 161 works effectively as a single admixture or in combination with other admixtures in the Sika System. When air entrained concrete is specified, Sika recommends the use of Sika air entraining admixtures. When used in combination with other admixtures, care must be taken to dispense each admixture separately into the concrete. Do not mix with dry cement.
Packaging	Plastocrete 161 is supplied in 55 gallon (208 liter) drums and bulk delivery.
Storage and Shelf-life	Plastocrete 161 should be stored at above 40°F (5°C). If frozen, thaw and agitate thoroughly to return to normal state before use. Shelf life when stored in dry warehouse conditions between 50°F and 80°F (10°C - 27°C) is one year.
Typical Data	
Appearance	Dark Brown liquid
Specific Gravity	Approx. 1.2
Caution	Skin and eye irritant; avoid contact. The use of NIOSH approved respirator, safety goggles and rubber gloves is recommended. Avoid breathing product. Use with adequate ventilation. Remove contaminated clothing.
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. 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 person to fresh air. Ingestion: Do not induce vomiting. Dilute with water. Contact a physician. In all cases, contact a physician immediately if symptoms persist.
Clean Up	Use personal protective equipment (chemical resistant goggles/gloves/clothing). Without direct contact, remove spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with applicable environmental 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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