

## PRODUCT DATA SHEET

# Sika® Plastocrete®-161

### WATER REDUCING ADMIXTURE

#### PRODUCT DESCRIPTION

Sika® Plastocrete®-161 is a lignin polymer-type water-reducing admixture. Sika® Plastocrete®-161 meets the requirements of ASTM C-494, Types A, B and D admixtures.

#### USES

Sika® Plastocrete®-161 is recommended for use in all applications where high quality concrete with superior workability is required.

#### CHARACTERISTICS / ADVANTAGES

Sika® 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.

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.

Sika® 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.

- 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.
- Sika® Plastocrete®-161 does not contain intentionally added chlorides and will not initiate nor promote the corrosion of steel in the concrete.

#### PRODUCT INFORMATION

<b>Packaging</b>	Sika® Plastocrete®-161 is supplied in 55 gallon (208 liter) drums and bulk delivery.
<b>Appearance / Color</b>	Dark Brown Liquid
<b>Shelf Life</b>	Shelf life when stored in dry warehouse conditions between 50 °F and 80 °F (10-27 °C) is one year.
<b>Storage Conditions</b>	Sika® Plastocrete®-161 should be stored at above 40 °F (5 °C). If frozen, thaw and agitate thoroughly to return to normal state before use.
<b>Specific gravity</b>	Approx. 1.14

## APPLICATION INFORMATION

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### Recommended 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 2–5 fl. oz. / 100 lbs. (130–325 ml / 100 kg) of cementitious materials for normal setting characteristics. Dosage rates of 5–8 fl. oz. / 100 lbs. (325–520 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 representative or Sika technical service department at 1-800-933-7452 for further information.

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### Mixing

Sika® 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:** Sika® 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.

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## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the

obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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 the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs.

**NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

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**Product Data Sheet**

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