BUILDING TRUST
CONSTRUIRE LA CONFIANCE

PRODUCT DATA SHEET
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Sika® Plastocrete®-161

WATER-REDUCING, POLYMER-TYPE AND NON-CORROSIVE ADMIXTURE

Description

Sika® Plastocrete®-161 is a lignin, polymer-type and non-corrosive water-reducing admixture.

Where to Use

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

Advantages

- Economical and highly effective water reduction.
- Acts as a dispersant for the cement particles.
- Increases surface area of cement particles for early hydration.
- Greater compressive and flexural strengths of concrete.
- Type A allows up to 10% water reduction.
- Increased hydration in hardened and plastic states.
- Allows the use of more economical mixes.
- Makes concrete easier to pump and finish.
- Consistent setting times.
- Decreased permeability and increased durability.
- Does not contain intentionally added chlorides and will not initiate nor promote the corrosion of steel in the concrete.

Standards

- Sika® Plastocrete®-161 meets the requirements of ASTM C494 Types A, B and D

TYPICAL DATA

Packaging	205 L (54 US gal) drum 1040 L (275 US gal.) IBC container Bulk delivery
Appearance / Colour	Dark brown liquid
Shelf Life	1 year when stored in dry warehouse conditions between 10 - 27°C (50 - 80°F). Store at above 5°C (40°F). If frozen, thaw and agitate thoroughly to return to normal state before use

PROPERTIES

Specific Gravity	Approx. 1.13

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

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, the recommended dosage rate is between 130 - 325 mL/100 kg of cementitious material for normal setting characteristics. Dosage rates of 325 - 520 mL/100 kg of cementitious material 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 Sika Canada Technical Sales Representative for further information.

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 Sika® admixtures. When air entrained concrete is specified, it is recommended that Sika® air entraining admixtures are used.

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.

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.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data. KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY

The Information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions, within their shelflife. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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