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Self Leveling Cement

TECHNICAL BULLETIN

Description

Stardek Self Leveling Cement is a self-drying, self-leveling, polymer modified, abrasion resistant, cement based topping for the resurfacing of indoor concrete. Self Leveling cement can be installed from ¼' to 1 ½' in a single operation. Self Leveling Cement is manufactured in three colors (White, Gray, and Tan) for a broad range of architectural floors. Self Leveling Cement can be stained with any acid based stain and accepts both epoxy and urethane coatings to produce creative architectural flooring.

Uses

Self Leveling Cement is used for the resurfacing of indoor concrete providing a level and smooth floor for warehouses, light manufacturing, retail floors, showroom floors, malls, residential floors, and all areas requiring smooth, hard concrete surface. Self Leveling Cement is produced in three brilliant colors that require no additional treatment other than mixing, pouring, and sealing to provide a new concrete floor.

Surface Preparation

Substrates must be structurally sound, clean, and free of paint, oil, grease, sealers, curing agents, wax, release agents, loose particles, and any other substances which may act as a bond barrier. It is recommended to mechanically roughen the surface of concrete substrates by sandblasting, shot blasting, scarifying, or grinding. Concrete must be at least 28 days old and free of hydrostatic pressure and moisture conditions. It is recommended to perform a calcium chloride moisture test 72 hours prior to installation. 3 LBS of water per 1000 square feet per 24 hours is the industry standard, which should not be exceeded. The substrate temperature must be a minimum of 50 degrees Fahrenheit and maintained for 72 hours after the installation. The subfloor must be properly primed using a STARDEK Overlay Primer.

Mixing

Using a clean mixing container, pour in the required amount of water. Gradually add the powder while slowly mixing using a drill and paddle. Water: Powder ratio is 4.75 – 5 qt. to 50 LBS. **Do not over water the material.** The water ratio must be maintained when working with pre-colored materials. Mix at low speed until homogenous and lump free. For large applications the use of a Continuous Mixer & Pump or Batch Mixer & Pump is recommended. Avoid over mixing.

Application

Pour or pump the material in a continuous operation and immediately spread with a smoother or gauge rake. Apply a minimum of ¼' average thickness over the highest point. Self Leveling Cement can be installed from ¼' to 1 ½' in one operation. Surface troweling is not necessary, as this material is self-leveling. Avoid walking on the poured material for a period of at least 2 to 3 hours depending upon the temperature and humidity conditions. Self Leveling Cement has a flow time of 10 – 15 minutes depending upon the temperature and humidity conditions. Wear non-metallic baseball cleats to avoid leaving marks in the poured material. The Self Leveling Cement is a cementitious material. Observe the basic rules of concrete work. Do not cover or bridge expansion or control joints. Prevent wind drafts and protect from direct sun.

Technical Data

Flow Time	10-15 Minutes
Final Set	2-3 Hours
Compressive Strength	1 day
>3000 psi	
>5800 psi	28 days
Flexural Strength	
1200 psi	28 days
Approximate Coverage	
¼" Thickness	25 sq. ft (50 LB bag.)

The information contained herein is based on data obtained by our own research and other recognized manufacturers and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data of the results obtained from the use thereof. This information is furnished upon the condition that the person receiving it shall make his own tests to determine the suitability thereof for his particular purpose.