

Self Level Polish

Architectural Concrete Coat and Patch

Description

SLP is a high performance, fast setting, self-leveling, cementitious overlayment designed for polishing applications. SLP quickly levels and maintains workability for up to 30 min, bonds well and produces a tough, long wearing surface. SLP can be applied from 3/8" to 2" in a single lift and up to 4" if extended with a proper aggregate such as pea gravel. SLP is ready for light foot traffic in 34 hours, can accept floor coverings in 812 hours and can be polished in 24 hours. When ground and polished, SLP is designed to mimic the appearance of polished concrete. SLP excels as a floor repair patch and can be color matched to most existing concrete surfaces.

Features and Benefits

- Fast turnaround
- Polishes as well as concrete
- Indoor or outdoor use
- Can be stained or dyed
- Great for patching

Typical Applications

SLP is used for resurfacing of most concrete type surfaces including but not limited to, hotels foyers, office floors, patios, restaurants, bars, porches, malls and any other concrete floor or surface restoration projects. May also be used as a casting mix such as for countertops and furniture.

Tech Specifications

Specifications listed for product used at 70 degrees and no adverse conditions.

Working time.....15-20 min

Foot traffic.....4-6 hrs

Polish.....24 hrs

Set times can vary based on temp, humidity and other environmental factors

Coverage per 50 lb bag.....16 sq ft at 3/8"

Compressive strength.....3900psi at 24 hrs

.....7000 psi at 14 days

Dry appearance.....Buff/Grey

Tensile strength.....415

Flexural strength.....1250 ultimate

Instructions

SURFACE PREP: All concrete substrates must be structurally sound and fully cured (28 days min). Clean the surface of any contaminants including dust, dirt, debris, paint, tar, wax, oil, grease, curing compounds or sealers. Mechanically profile the surface by shot blasting, sandblasting, or scarifying. Surface profile should be to CSP2 to CSP5. Acid etching typically does not provide enough of a profile for proper bonding. Substrate and ambient temperatures should be between 50° and 85° before application. All existing expansion, and control joints as well as any moving cracks must be honored. Surfaces should be primed with SLP primer and allowed to dry to "tacky" before proceeding (15-30 min).

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Instructions cont'd

MIXING: SLP to 4.5-5 quarts potable water in a large mixing vessel. Mixing should be done with an egg beater style mixing head and a heavy duty ½ inch drill. Mixing splines should be cleaned off between batches to avoid heavy buildup. SLP mix should be flowable and can be poured onto the surface.

PLACING: Arrange work area to permit continuous placement without cold joints. SLP can be mechanically mixed (using the mixing ratio above) with a continuous mixer and pump or a batch mixer and pump. Use a mesh screen at the end of the hose to catch any foreign material. For polished concrete toppings, place SLP at a minimum thickness of 3/8 inch onto the prepared and primed substrate. For warehouse and industrial floors, SLP should be applied at a minimum of ½ inch. Set the width of the pour at a distance that is ideal for maintaining a continuous flow and wet edge throughout placement. Pour or pump SLP onto the floor in a ribbon pattern and spread it out with a gauge rake based on the need of the surface. After achieving the desired depth, smooth the product surface with a smoother, squeegee, broom or spiked roller to obtain an even surface. Do not overwork the material. Use a spiked roller to help evenly blend the start and stop transition between pours. Do not allow more than a few minutes to elapse between subsequent pours to prevent cold joints. SLP will flow out and continue to level for about 15 minutes. Once the bleed water is gone and the surface is dull, it may be retroweled for a more burnished look. Avoid conditions of extreme heat and wind. They cause rapid moisture loss from the surface which can result in crazing or micro cracking.

SLP can be polished with any common polish system after a minimum of 24 hrs in normal conditions. The look will mimic that of polished concrete if done correctly.

SLP can be stained and sealed once cured. Wait at least 24 hours before staining and allow stains to fully dry before applying sealers according to manufacturer instructions.

Notes

SLP is not a structural topping. It is not possible to predict the appearance of micro-cracking in non-structural toppings. Reflective cracks may appear due to vibration, substrate flexure or existing joints and cracks. This material is designed as a wear surface for foot traffic, forklift traffic or other rubber-wheeled traffic. Damage can result by exposure to metal or plastic wheeled traffic and may show as gouging and pronounced scratches.

NOT recommended in locations where deicing salts will be used.

WEATHER: Air and material temperatures below 65°F may delay setting time and reduce strength gain. Lower temperatures will have even a more pronounced effect. In colder temps, keep materials warm and use heated mix water based on ACI standards. Air and material temperatures above 70°F (21°C) may speed setting time and increase the rate of strength gain. Higher temperatures will have even a more pronounced effect. In warmer temps, keep material cool and or use chilled mix water according to ACI standards.

WARNING: DO NOT BREATHE DUST. AVOID CONTACT WITH SKIN AND EYES. Use material in well ventilated areas only. Exposure to cement dust may irritate eyes, nose, throat, and the upper respiratory system/lungs. Silica exposure by inhalation may result in the development of lung injuries and pulmonary diseases, including silicosis and lung cancer. The use of a NIOSH/MSHA-approved respirator is recommended to minimize inhalation of cement dust. Avoid ingesting cement dust. Skin contact with dry material or wet mixtures may result in skin irritation and chemical burns. Protect eyes with goggles or safety glasses with side shields. Cover skin with protective clothing. Use chemical resistant gloves and waterproof boots. In case of skin contact with cement dust, immediately wash off dust with soap and water to avoid skin damage. In case of eye contact with cement dust, flush immediately and repeatedly with clean water and consult a physician. If wet concrete splashes into eyes, rinse eyes with clean water for at least 15 minutes and go to the hospital for further treatment.

PROPOSITION 65 WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

LIMITED WARRANTY: This product is warranted to be of merchantable quality when used according to the instruction herein. It is not warranted to be suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of the product as purchased, if found to be defective upon inspection by the manufacturer. This limited warranty is issued and accepted in lieu of all other expressed warranties and explicitly excludes liability for consequential damages. Buyer assumes all risk and liability resulting from the use of this product. Revised 02-15-18

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