

SILPRO

SILFLO® PC (SLT NIKE)

Self-Leveling
Wearing Surface
Underlayment
Polishable

SILPRO, LLC / 2 NEW ENGLAND WAY / AYER, MA 01432-1514 / 800-343-1501 / 978-772-4444 / FAX 978-772-7456 / WWW.SILPRO.COM

SILFLO® PC is a self-leveling, structural grade, interior or exterior floor topping mortar. SILFLO® PC can be polished to achieve the desired appearance. Mixed only with water, it becomes a free flowing material that achieves a flat and smooth surface. SILFLO® PC produces a smooth, hard and durable wearing surface or is ready to receive a finish floor. SILFLO® PC is easily applied and offers an economical installation.

The mortar can be applied from a near feather application to 2" in a single lift and up to 5" when mixed with aggregate. For thickness greater than 2", use ¼" - ⅜" pea gravel. Applications that will be polished require a minimum depth to allow for the polishing process.

TEST DATA

Compressive Strength: (ASTM C109)	28 days 5000 psi
Lineal Shrinkage: (ASTM C531)	28 days Less than 0.07%
Wet Density: (ASTM C185)	117 Pounds per Cubic Foot
Hardness:	60 Days Mohs Scale rating: 5.0 Shore 'D' Hardness: 85

SURFACE PREPARATION

Surfaces to be covered must be structurally sound, clean and free of dust, oil, grease, sealers, curing compounds, laitance, release agents or other surface contaminants. For smooth concrete, use mechanical abrasion to achieve a surface profile. A concrete surface profile (CSP) of 3 to 6 is recommended *See International Concrete Repair Institute for profile details at www.icri.org.

The cleaning and preparation method selected depends on both the sub-floor material and its condition. Acid etching is not recommended. Failure to remove all contaminants that impede the bonding agent may result in adhesion problems.

Wood: Surfaces must be free of any bond-inhibiting materials such as wax, paint, oil, adhesives, loose patches, etc. The subfloor must be ¾" thick, A.P.A. classified type 1 exterior grade plywood or solid hardwood flooring. Spaces in joints should be filled with Silpro's SKIM PRO™. All fastener heads must be flush or countersunk and the plywood should be rigid without any flex or bounce. Refasten any loose boards.

Install 3.4 pounds per square yard or similar approved by Silpro, galvanized, diamond lath that is overlapped at least 2 inches on all sides then mechanically attached.

SURFACE PREPARATION, (CONT.)

The lath shall be fastened every 6 inches on overlaps and have 8 inch centers starting from a floor joist. Polishing or running equipment over wood floors will cause significant cracking.

PRIMING

Follow all directions in the product data sheets of R-2000™ and CIE 100 EPOXY™ primers.

All surfaces to be leveled with SILFLO® PC must be primed. CIE 100 EPOXY™ PRIMER is recommended for surfaces that will be left exposed or polished. The epoxy primer will help minimize cracking where aesthetics are a priority.

Alternatively the SILFLO® PC may be primed with R-2000™. Apply primer using a soft bristle brush, or exploded tip push broom. Pour the diluted primer on the floor and sweep thoroughly to ensure that the surface is coated evenly without leaving puddles or bare spots.

MIXING

To mix SILFLO® PC use 4.5 quarts of water for each 50 lb. (22.7 kg) bag of dry powder.

For optimal performance and depending on the specific use, depth, and conditions, the water content may be adjusted by .25 quarts of water per bag.

The water should be added to the mixing barrel first, then pour in the SILFLO® PC, followed by the appropriate aggregate (if used). Use a mixing paddle (an oval shaped type is recommended) with a high-speed drill (600 to 1200 rpm), mix thoroughly (2 minutes) until the powder has been completely dispersed and the mix has acquired a smooth homogeneous texture.

For thickness over 2" thick, ¼" - ⅜" pea gravel may be added after the SILFLO® PC been mixed thoroughly. The addition of the pea gravel may affect the flowability and surface of the SILFLO® PC.

APPLICATION

Apply the SILFLO® PC mixture to the prepared surface, by using a gauged spreader tool that can be adjusted to the desired depth. It is recommended to mix only the amount of SILFLO® PC that can be applied within the 10 minute working time. Temperatures and material depth will effect working time. Because the mixed material is rapidly poured and spread, the application must be completed in a continuous operation.

For Customer Service, Call Silpro at 1-800-343-1501

APPLICATION CONTINUED

The use of a gauged spreader and smoother blade are recommended to improve the surface finish. **SILFLO®PC** will accept light foot traffic 2-3 hours later. Under normal conditions, floors can be sealed or covered in 24 hours.

When **SILFLO®PC** is to be applied on surfaces other than concrete (i.e., wood, metal, terrazzo, etc.), consult Silpro for recommended preparation, bonding, and application procedures. All floor adhesives compatible with normal concrete may be used with **SILFLO®PC**.

All control and expansion joints must be carried through the **SILFLO®PC**. If the material will be left exposed and joints are not present, cut control joints within 24 hours spaced no more than 20 feet apart.

LIMITATIONS

SILFLO®PC should only be applied over substrates that are between 55°F (12°C) and 90°F (32°C). Do not allow to freeze within 7 days of application.

To determine the suitability of the substrate surface for adhesion and the finish for appearance including texture and color, install a 10'x10' test patch at the maximum designed thickness using the techniques, equipment, and materials to be used, for approval by the owner, architect, or contractor prior to proceeding with the job.

Slabs above grade are known to have a more significant frequency of cracking due to vibration from job site equipment and polishing equipment.

PACKAGING

50 lb. bag (22.68 kg.)

APPROXIMATE COVERAGE

50 lb. (22.7kg) bag: 25 sq. ft. @ ¼"

For Thickness over 2" inch depth:

2" & up use ¼" - ⅜" pea gravel @ 50 lb per bag

SHELF LIFE

1 Year

CAUTION!

SILPRO offers products that may contain cement, latex, epoxy, and other chemicals. Please review the Safety Data Sheet before the use of this product.

GUARANTEE

Please call Silpro LLC for copy of guarantee.

The logo for SILPRO, featuring the word "SILPRO" in a bold, black, sans-serif font. The letters are slightly shadowed, giving the logo a three-dimensional appearance as if it is sitting on a surface.