

SILPRO

SILFLO® SG

Applications up to 5 inches
High Performance Synthetic Blend
Poured or Pump Applied
Does Not Contribute to Mold

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SILPRO SILFLO® SG is a high performance, synthetic gypsum, self-leveling underlayment specifically designed for resurfacing and leveling wood and gypsum substrates prior to the installation of resilient flooring, ceramic tile, wood, laminate or carpet.

ADVANTAGES

- Polymer-modified
- Pumpable
- High strength
- High flexural strength
- Does not contribute to mold growth
- No reinforcement required over wood substrates
- One component - ready to use, just mix with water
- Provides a compatible bonding surface for tile, carpet, and other adhesives
- Easy mixing, long working time
- Fast setting - open to foot traffic in approx. 3 hours
- Self-drying

TECHNICAL DATA

Compressive Strength (ASTM C-109)	1 Day	1600 psi
	7 Days	3000 psi
	28 Days	4500 psi

Working Time 25 minutes

Set Time 120 minutes
(ASTM C-191)

Typical values for material cured at 70°F, 50% RH

SURFACE PREPARATION

Suitable Substrates: Plywood and OSB board (properly secured), existing ceramic tile, sheet vinyl, terrazzo, concrete, gypsum and old water-resistant adhesives.

Surfaces must be structurally sound, clean, and free from all bond inhibiting materials. Weak surfaces must be removed by mechanical means. Water soluble adhesive residue must be completely removed by mechanical means. On or below grade applications must be done over substrates with suitable vapor barrier.

PRIMING

All surfaces must be primed with **R-2000™ PRIMER** prior to installing SILFLO® SG. The primer must be dry to the touch before applying SILFLO® SG. Allow the primer to dry for a minimum of 3 hours and a maximum of 48 hours. The primer dilution or modification will depend on the nature of the substrate.

Use **R-3000™ PRIMER** for metal, epoxy and other non-porous substrates.

CIE 100 EPOXY PRIMER™ is recommended for substrate crack repair and as a primer over substrates that exhibit significant cracking.

Follow all directions in the product data sheets of **R-2000™ PRIMER**, **R-3000™** and **CIE 100 EPOXY PRIMER™** primers.

MIXING

Mix ratio: 5 quarts of water per 50 lb. (22.68 kg.) bag

Manual Mixing: Mix 2 bags at a time. Place 10 quarts of water into a SILPRO mixing drum and add one bag of SILFLO® SG at a time to the water while mixing with a 7 amp, 650- rpm drill and a **MIXING PADDLE™**. Mix thoroughly for approximately 1 to 2 minutes until a lump-free consistency is achieved. Extended mixing may entrap air that can cause pinholes and affect surface smoothness.

Do not add more water. Adding more water than specified can result in aggregate settling, low strength, and surface dusting.

Mixer/Pumps: SILFLO® SG can be mixed and applied using automated equipment developed specifically for the application of self-leveling underlayments.

Over-watering can result in surface powdering, color variations and bonding issues. The equipment must be capable of accurately and consistently metering the appropriate amount of mix water. Mix/pumps should be equipped with a means of setting the water amount per unit of powder to 5.0 quarts of SILFLO® SG.

APPLICATION

Pour or pump the mixed SILFLO® SG onto the prepared substrate and spread to the desired thickness with the **SPREADING TOOL**. Smooth the surface with the **SMOOTHING TOOL** within 5 minutes of placing. For large continuous pours maintain a wet edge and pour the subsequent material into the previous pour smoothing the transition.

Wear cleated shoes while placing the SILFLO® SG to avoid leaving marks in the fresh material.

Thickness of Application: SILFLO® SG may be placed from feather to 2" neat. **Note:** For applications above 1", minor surface touchups such as sanding, buffing, and/or skimming may be required. SILFLO® SG may be extended up to 5" with the addition of 3/8" clean, washed pea stone. When adding pea stone, add 25lbs to 50lbs of pea stone per 50 lb (22.68 kg.) bag of SILFLO® SG. The pea stone should be uniformly distributed throughout the mix, as well as completely coated by SILFLO® SG.

Note: When using peastone, a bumpy surface may result. To finish, a thin layer of SILFLO® SG or other Silpro patching or skim products may be used.

When applying SILFLO® SG in multiple lifts, allow the previous layer to cure for 48 hours before the next application. Prime between applications (Follow instructions for priming over porous substrates above).

Note: Even with multiple lifts, 2 inches in total is the maximum thickness when applied neat.

Clean Up: Clean tools and equipment with water. Do not let SILFLO® SG harden on tools. If it does, remove mechanically.

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

CURING

Prevent exposure to wind, drafts, and direct sun that could cause surface drying and wrinkling.

WAITING PERIOD FOR APPLICATION OF COVERING

Most thin-set mortar applications or floor coverings that are not moisture sensitive may be placed in as little as 6 hours. Moisture sensitive floor coverings may be installed in as little as 16 hours. Drying time may vary and will depend on a number of factors including thickness of application, temperature and relative humidity. Test the substrate prior to flooring installation to ensure that it meets moisture and other requirements specified by the flooring manufacturer.

LIMITATIONS

- For interior applications only.
- Not for use in areas subject to contact moisture or water contact.
- Apply only when surface and ambient temperatures will be 50°F and above for a minimum of 24 hours after application.
- Adding excess water can result in surface dusting and bonding issues.
- To determine the suitability of the substrate surface for adhesion and the final 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.
- All control and expansion joints must be carried through.
- Concrete and gypsum substrates must be a minimum of 7 days old.
- Substrates must be structurally sound meeting local building codes.
- Do not apply over dusting or unsound concrete.
- Substrate temperature must be 50°F. or above.
- For temperatures higher than 85°F. consult Silpro's Technical Service Dept.
- Will be damaged by construction traffic if not protected.
- Lifts and heavy equipment that vibrate the floor may cause cracking or debonding.

APPROXIMATE COVERAGE

24 square feet (0.45 ft³) when applied at 1/4" thick per 50lb. (22.68 kg.) bag mixed with 5.0 quarts of water. Water to Powder Ratio: 5.0 quarts per 50lb (22.68 kg.) bag of **SILFLO® SG**.

Product Weight: 120 lb. per cubic foot Dry

Product Weight: 123 lb. per cubic foot Wet

STORAGE

Store in a cool dry place. Temperature should range between 50-80°F. Keep out of direct sunlight. Precondition to 70°F +/- 5° prior to using.

PACKAGING

50 lb. bag (22.68 kg.)

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.

