

SILPRO

RAECO SLU™ SUPERFLOW

Self-Leveling Underlayment Mortar
Cement-Based

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SILPRO SLU SUPERFLOW™ is a high-flow self-leveling cementitious, self-curing polymer-modified, underlayment. Pre-packaged as a single component system, **SLU SUPERFLOW™** may be installed from 1/8" to 2" inch thickness neat in a single lift. It is high-strength, non-shrinking, dimensionally stable, fast setting, self-leveling cement-based underlayment that provides a flat, smooth, durable floor with less drying time than a typical Portland cement self-leveling underlayment.

SLU SUPERFLOW™ is mixed only with water and produces a pourable or pumpable liquid, which is easily finished off to create very smooth, level surface and is suitable for all types floor coverings. **SLU SUPERFLOW™** is ready to accept light foot traffic in 2-3 hours and dry enough for most floor coverings in 12 hours or less.

SLU SUPERFLOW™ is designed for interior use in leveling uneven floors, rough concrete, correcting camber problems and resurfacing frozen or rained-out slabs. **SLU SUPERFLOW™** may be used over plywood subfloors with the installation of galvanized diamond metal lath.

SLU SUPERFLOW™ may be used over ceramic tile, terrazzo and wooden subfloors to provide a smooth, cementitious finish before installation of flooring.

ADVANTAGES

- High Compressive strength
- Superior flow qualities
- Rapid early strength gain. Walkable in 2-3 hours
- Mixes with only water
- Superior bonding polymer system
- Maintains extended workability
- Not a gypsum based product.

TEST DATA*

*Data shown is under controlled laboratory conditions as prescribed by ASTM curing conditions (Normally 70°F and 50% RH.) Variations due to job site and other testing conditions may be experienced.

Dry (cured) Density:	120 lbs. per cubic foot (pcf)	
Compressive Strength:	1 day	2000 psi
	7 days	3000 psi
	28 days	4200 psi
	Fully Cured	5000 psi
Flexural Strength: (ASTM C580)	28 days	1050 psi

TEST DATA*, (CONT.)

Lineal Shrinkage: 28 days, Less than - 0.07%
(ASTM C531)

Working Time: 15 min. @ 70°F (21°C)

Initial Set Time: Approximately 70 min. @ 70°F (21°C)
(ASTM C191)

Final Set Time: Approximately 120 min. @ 70°F (21°C)
(ASTM C191)

SURFACE PREPARATION

Concrete Floors: Surface must be solid, completely clean, free of oil, wax, grease, sealers, curing compounds, asphalt, paint, dirt, loose surface material and any contaminant that will act as a bond breaker. Weak concrete surfaces must be cleaned down to solid sound concrete by mechanical means. Acid etching or chemical cleaning is not acceptable. Expansion joints and all moving joints in the substrate must be honored through the applied underlayment.

Wood Surfaces: Surfaces must be free of any bond-inhibiting materials such as wax, paint, oil, adhesives, loose patches, etc. The subfloor must be 3/4" thick, A.P.A. classified type 1 exterior grade plywood or solid hardwood flooring. Spaces in joints must be filled with **SILPRO FEATHER SPREAD RPS™**.

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. The lath shall be fastened every 6 inches.

PRIMING

All surfaces to be leveled with **SUPERFLOW™** must be primed with **R-2000™** primer, including multiple layers of **SLU™**. Apply primer using soft or medium bristle broom. A second application may be required over porous surfaces. Use **R-3000™** Non-Porous 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 priming directions in the product data sheets of **R-2000™**, **R-3000™**, or **CIE 100 EPOXY™** primers.

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

MIXING AND INSTALLATION

5 quarts (4.75 liters) of water per 50 lbs bag.

Mix 2 bags of **SLU SUPERFLOW™** at a time. For each mix add 10 quarts (9.5 liters) clean potable water into a clean mixing drum. Add the **SLU SUPERFLOW™** bags, while mixing at full speed with a paddle mixer attached to a heavy-duty ½" drill (min. drill speed 650 rpm). Mix completely for a minimum of approximately 2 minutes until lump free, adding no additional water.

SLU SUPERFLOW™ will flow and level for 15 minutes at 70°F. Pour the blended **SLU SUPERFLOW™** on the floor and disperse with the gauged spreader, followed by smoothing the material with the smoother tool. Rubber cleated shoes must be worn to avoid leaving footprint marks.

It is recommended that two (2) Silpro mixing drums be used simultaneously, mixing in one while pouring the other. This ensures there is no delay between drums while mixing.

SLU SUPERFLOW™ can also be pumped

Thickness: **SLU SUPERFLOW™** can be applied from ⅛" to 2" inches in one application. If application requirement is deeper than 2", pour first layer up to 2". Then allow the first layer to dry, normally 24 hours. See priming instructions for very absorbent concrete. When the primer is completely dry, install a second layer of **SLU SUPERFLOW™** up to another 2" inches.

For any application over 1" depth, it is economical to extend the **SLU SUPERFLOW™** with 3/8" or similar pea gravel. Mix up to 50 lbs. washed, well-graded pea gravel with each 50# bag of **SLU SUPERFLOW™**

LIMITATIONS

- Adding excess water will result in surface whitening and bonding issues.
- 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.
- All control and expansion joints must be carried through.
- Concrete must be a minimum of 7 days old.
- Will be damaged by construction traffic if not protected.
- Lifts and heavy equipment that vibrate the floor may cause cracking or debonding.
- For interior use only

LIMITATIONS CONTINUED

- Do not install below 50 °F (10°C) or above 90 °F (32°C)
- Contact Silpro to go over gypsum based surfaces
- Not a wearing surface. Must be covered with flooring or a compatible cement topping system.
- Do not over-water, re-temper, or add additional additives
- Rely upon floor covering manufacturer for directions concerning maximum allowable moisture content of subfloor, adhesive selections and required flatness tolerances. Moisture testing should be done prior to installing **SLU SUPERFLOW™**.

PACKAGING

50 lb. bags (22.68 kg.) (50 bags per pallet)

APPROXIMATE COVERAGE

Per 50 lb. bag:

Nominal Thickness:	Approximate Coverage:
¼" (6.4 mm)	25 ft²
½" (12.7 mm)	12.5 ft²

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.

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