Silpro Silflo® 230 is a high performance, multi-purpose, cement-based, polymer-modified topping that can be used as a self-leveling underlayment or as an exposed wearing surface for interior applications. As an underlayment, it is recommended for resurfacing and leveling interior concrete, wood, cement terrazzo, quarry, and ceramic tile floors prior to the installation of resilient flooring, ceramic tile, wood flooring, laminate, or carpet.

**Surface Preparation**

**Concrete:** Surfaces must be clean and free of any loose or friable materials. All bond-inhibiting materials such as paint, oil, curing compounds, sealers, gypsum, adhesives, etc., must be removed by shotblasting or other mechanical means. In most cases cutback adhesive must be removed. Refer to the Resilient Floor Covering Institute on the use of the wet scraping technique. Polished floors must be shotblasted or scarified. Smooth concrete and/or non-porous substrate must be mechanically prepared to provide a porous and profile substrate.

**Wood:** 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 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, galvanized, diamond lath that is overlapped at least 2 inches on all sides then mechanically attached. The lath shall be fastened every 6 inches on overlaps and have 8 inch centers starting from a floor joist.

**Cement Terrazzo, Ceramic Tile:** All waxes and sealers must be removed. Remove all glazes and roughen the surface by either shotblasting or other mechanical means.

**Advantages**

- Multi-purpose: use for thin pours, thick pours, underlayment, or wearing surface
- Recommended for all rehab projects involving concrete, tile, terrazzo, and wood surfaces
- May be pumped or drum mixed and poured
- Fast setting — open to foot traffic in 3 to 5 hours
- Self-drying

**Surface Preparation (Cont.)**

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

Silflo® 230 may be extended with the addition of 3/8” clean, washed pea stone. When adding pea stone, add 50 lbs of pea stone per 50 lb bag of Silflo® 230. The pea stone should be uniformly distributed throughout the mix, as well as completely coated by Silflo® 230.

**Application**

Pour or pump the mixed Silflo® 230 onto the prepared floor and spread to the desired thickness with Silpro’s Spreading Tool. Smooth the surface with the Silpro Smoothing Tool within 5 minutes of placing. For large continuous pours maintain a wet edge and flow the freshly placed material into the previous pour smoothing the transition.

Wear cleated shoes while placing the Silflo® 230 to avoid...
Application, (Cont.)

leaving marks in the fresh material.

Thickness of Application: Silflo® 230 may be placed from feather to 5” neat. When installed over a wood substrate, a minimum of 3/8” of Silflo® 230 must be placed over the lath. When applying Silflo® 230 in multiple lifts, allow the previous layer to cure for 48 hours before the next application. Prime between applications.

Clean Up: Clean tools and equipment with water. Do not let Silflo® 230 harden on tools. If it does, remove mechanically.

Curing

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

Wear Surface

Silflo® 230 is suitable for use as a light to moderate duty wear surface, for example offices or light warehousing operations, where rubber-wheeled carts and transport devices are used.

Silflo® 230 has the hardness and abrasion resistance to function as a wearing surface. When used in this manner it can be sealed with an appropriate coating to prevent penetration of water or other liquids that may stain or impair long-term performance and also to insure uniform surface color of the finished floor in the case of a pigmented sealer. Generally, coatings developed for concrete will adhere to Silflo® 230, however it is the applicator’s responsibility to confirm this by completing a test patch for approval by the owner, architect, or contractor prior to starting the job. The nature of the specific coating selected by the contractor will depend on the performance required by the customer.

The surface of the Silflo® 230 may be adequate for coating as is, however, depending on mixing and application, sanding and light patching to fill minor voids or pinholes may be necessary.

Limitations, (Cont.)

• Do not apply over dusting or unsound concrete.
• Do not expose Silflo® 230 to freeze/thaw conditions.
• Substrate temperature must be 50°F or above.
• For temperatures higher than 85°F consult Silpro’s Technical Service Dept.
• For applications over wood and nonporous substrates contact Silpro’s Technical Service Department to review the specific project conditions.

Waiting Period for Application of Covering

Most thin-set mortar applications or floor coverings that are not moisture sensitive may be placed in 12 – 16 hours. Moisture sensitive floor coverings may be installed in 48 – 72 hours for thin applications of Silflo® 230, however longer periods may be required for thick applications. Drying time will depend on a number of factors including temperature and relative humidity. Test the substrate prior to floor installation to insure that it meets moisture and other requirements specified by the flooring manufacturer.

Packaging

50 lb. bag (22.68 kg.)
2400 lb. super sack (1088.64 kg.)

Coverage

24 square feet when applied at 1/4” thick per 50 lb. bag mixed with 5 quarts of water.

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.

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.