



Manufacturers of Professional Grade Cement & Construction Products Since 1967

UL-001—REV.5

PRO S.L.U. SELF LEVELING UNDERLAYMENT

DESCRIPTION:

PRO S.L.U. is a polymer modified, pumpable, self-leveling, cementitious underlayment, which is designed to produce a smooth, flat surface without troweling. When mixed with water **PRO S.L.U.** becomes a fluid mixture, which will seek its own level.

USES AND APPLICATIONS:

- Leveling uneven concrete surfaces
- Smoothing pitted concrete surfaces
- Providing a level substrate for carpeting, tile, epoxy and other floor surfacing systems.

ADVANTAGES:

- Portland cement based product
- High compressive, tensile and flexural strengths
- Capable of being featheredged
- Very low shrinkage
- Water resistant
- Excellent bond to existing substrate
- Open to foot traffic after 4 hours 70° F (21° C)
- Compatible with most flooring adhesives
- No troweling required
- Mixes with water only

SURFACE PREPARATION:

All concrete surfaces should be free of oil, greases, wax, asphalt, gypsum compounds, dust, paint, sweeping compound residue and other contaminants that may act as a bond breaker.

Existing concrete surfaces should be scarified, sand blasted or shot blasted to remove all unsound concrete. The surface should be evaluated by a hammer test to determine if all unsound or hollow concrete areas have been removed. All concrete residue and dirt should be removed and the surface vacuumed to remove all dust.

It is important that any cracks in the surface are patched prior to the application of PRO SLU. Fine hairline cracks may transfer through to the new SLU topping and should be patched with either PRO GENERAL PATCH or fine cracks filled with a low viscosity epoxy material. Existing control joints and expansion joints must be respected and the new surface should be saw cut to re-establish those joints no later than 48 hours after placement of PRO SLU. Saw cuts should be sealed with a high-grade floor joint sealant product after the insertion of string or backer rod to prevent a three-sided bond of the sealant. Due to the fast setting time of the PRO SLU, tooling of joints after placement of the PRO SLU is not recommended.

If the PRO SLU is being used to smooth an existing floor, it is important to recognize that pools or low spots will simply be smoother than they were prior to the application of the PRO SLU. If PRO SLU is being used to level the floor, adjacent floor areas may not be at the same final elevation as the resurfaced area that has been leveled with PRO SLU. This may cause load transfer cracking to occur and is not the responsibility of CGM Inc.

All concrete surfaces to be leveled with PRO SLU shall receive one coat of PRO SLU PRIMER and the primer allowed to dry until slightly tacky prior to application of PRO SLU. PRO SLU PRIMER should be applied with either a short napped roller or low-pressure garden sprayer at an application rate of 150-200 sq.ft./gal. PRO SLU should not be applied to concrete that is below 50° F or in areas which cannot be heated above 50° F for a period of 72 hours after the application of PRO SLU. Curing compound should **NOT** be used on top of PRO SLU.

The floor areas that have been leveled or smoothed with PRO SLU may receive light foot traffic after 8 hours and light tow motor traffic may be allowed after 7 days. The final surface may be coated or painted to prevent grease and oil staining after 28 days. PRO SLU should not be wet cured or have a curing compound or sealer applied for the first 28 days after installation.

A substrate that is "open" in appearance with a rough, sandpaper texture must be achieved prior to any application. All open cavities or ruts must be patched 2 hours prior to installation with PRO N.B.P.

PRIMING:

The use of PRO BOND PRIMER is necessary for all applications. When the surface preparation is complete, apply one coat of PRO BOND PRIMER with a soft bristle push broom or a ¾" nap roller. Follow directions on the PRO BOND Primer Data Sheet. Remove any puddles and allow the primer to become tacky before the application of PRO S.L.U.

MIXING:

PRO S.L.U. must be mixed by mechanical means. For small applications, mix in a 5 gallon pail using a ½" heavy-duty electric drill with a Jiffy mixing paddle. Pour approximately 6 quarts of potable water into the 5-gallon pail. Gradually add the PRO S.L.U. into the container while mixing. Mix for 1 to 2 minutes or until a smooth consistency has been achieved. **DO NOT OVER WATER.** For larger applications, PRO S.L.U. may be mixed 2 units at a time in a mechanical mixer. Pour approximately 12 quarts of water into the mixer. Gradually add the 2 bags of PRO S.L.U. into the mixer. Mix for 1 to 2 minutes or until a smooth consistency has been achieved. **DO NOT OVER WATER.** In certain applications, the addition of coarse aggregate is required. First mix the PRO S.L.U then add the coarse aggregate. Add only enough water (4 to 5 quarts) to produce a flowable, non self-leveling, consistency. This will allow the aggregate to remain suspended in the mix.

APPLICATION:

PRO S.L.U must be applied immediately following mixing. Pour or pump the liquid material onto the application area and then spread with a notched rake only if needed. PRO S.L.U. Underlayment does not need to be troweled. It should flow without the need of trowel or rake. To maintain a wet edge, always pour into the previously poured mix.

PRO S.L.U may be applied from a featheredge up to a 2" thickness in a single application. For application thickness greater than 2" coarse aggregate must be added. The coarse aggregate should be 3/8" in size, clean, well graded and damp. A maximum of 20 lbs. of coarse aggregate may be added per unit of PRO S.L.U. Because of the addition of the coarse aggregate and lower water requirements, the workability of the material will be decreased. This will produce a rough surface. Therefore, a 1/4" smoothing layer consisting of straight PRO SLU will be necessary. This smoothing layer may be applied the following day. Priming with PRO SLU PRIMER will have to precede the application.

CURING:

The in-service time of PRO SLU is 4 hours at 70° F (21° C) for foot traffic. If ambient conditions (high temperature, low humidity, direct sunlight or strong winds) cause premature drying, wet cure by applying a fine mist of water.

RECOMMENDATIONS:

- If temperature exceeds 95° F (35° C), use cool water to mix the PRO S.L.U.
- The minimum ambient and surface temperature must be 50° F (7° C) at the time of application.
- Application and curing times are dependent upon ambient conditions
- Apply only to a clean, sound and properly prepared substrate.
- PRO SLU must be isolated from walls, columns and machinery bases.
- Moving joints in the existing substrate must be continued through the PRO S.L.U.
- Do not apply PRO S.L.U. over gypsum based materials.
- Test installations should be performed to assure compatibility with the existing substrate.

CAUTIONS:

- Dispose of waste materials in accordance with Federal, State and local regulations.
- This product contains Portland Cement and Free Silica. Avoid breathing dust; use with adequate ventilation. The use of a NIOSH/MSHA approved respirator is recommended.

PACKAGING:

PRO S.L.U. is available in 50 lb. bags.

SHELF LIFE:

When stored in original, un-opened container, one year. Rotate your stock.

COLOR:

When mixed, PRO S.L.U. is concrete gray.

WORKING TIME:

PRO S.L.U. has a working time of 20-40 minutes at 70° F (21° C).

YIELD:

PRO S.L.U. will yield approximately 0.52 ft.³ at an application thickness of 1/4". The coverage is approximately 25 ft.². When extended with 20 lbs. of 3/8" coarse aggregate, the yield will be approximately 0.65 ft.³.

HEALTH AND SAFETY

- This product is a skin and eye irritant; Avoid prolonged contact. The use of NIOSH/MSHA approved safety goggles and rubber gloves is recommended.
- In case of contact, flush eyes with water. Wash skin with soap and water. Contact a physician.
- For industrial use only.
- Keep out of the reach of children.

STORAGE CONDITIONS:

PRO S.L.U. must be stored at or above 40° F (7° C) in a dry area. Avoid high humidity and temperatures above 95° F (35° C)..

TECHNICAL DATA:

Compressive Strength (ATSM C109)

6 QUARTS PER 50 LBS.

1 day	1780 psi
3 day	2365 psi
7 days	3159 psi
28 days	4250 psi

Tensile Strength (ASTM C 190)

1 day	210 psi
7 days	344 psi
28 days	432 psi

Flexural Strength (ASTM C 348)

1 day	404 psi
7 days	525 psi
28 days	856 psi

Bond Strength (ASTM C 882)

7 days	372 psi
14 days	617 psi

Heal Time 30 minutes

In-Service Time 24 hours

GENERAL INFORMATION:

Please contact CGM, Inc. at any of the following numbers for customer service or technical assistance:

Voice: 215-638-4400
Toll Free: 800-523-6570
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WARRANTY:

CGM INC. warrants this product to be free of manufacturing defects. The sole responsibility and maximum liability of CGM under this warranty shall be at CGM's option, either (1) to replace the defective product in the form the product was purchased but not in the form the product was installed or used, or (2) to refund the purchase price of the product. In no event shall CGM be liable to the purchaser or to any third party for any loss or damage, of any type, including but not limited to incidental and/or consequential damage, resulting from the purchase or use of this product. In the event of any claim under this warranty, written notice must be given by registered mail.

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