

Description:

G-SL is a high strength, gypsum based, self-leveling floor underlayment used for repairing and leveling gypsum and wood substrates prior to the installation of finished floor coverings.

Purpose / Use:

G-SL is used as a remedial material for damaged gypsum sub-floors, or directly over building code approved structurally sound wood. G-SL can be installed from 1/4" up to virtually any thickness to achieve a smooth, flat surface.

Advantages:

- Installs from 1/4" to virtually any thickness.
- Low Sound Transmission.
- No troweling required
- Ideal for pumping and barrel mixing applications
- Maintains healing properties for over 25 minutes
- Excellent for radiant heat systems
- Contains no protein additives.
- High early strength gain, 1000 psi in just 4 hours
- No dangerous emissions or irritating fumes

Compressive Strength (ASTM C 109):

4 Hours	1000 psi	6.9 MPa
1 Day	2500 psi	17.3 MPa
7 Days	3000 psi	20.7 MPa
28 Days	5000 psi	34.5 MPa

Flexural Strength (ASTM C 348):

28 Days	1500 psi	10.4 MPa
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Set Times (ASTM C 191):

Working Time	30+ Minutes
Initial Set	1 Hours
Final Set	1.5 Hours

Flammability (ASTM E84):

Flame Spread: -0-
Fuel Contribution: -0-
Smoke Development: -0-

Application Temperature Range:

50°F – 95°F

Mixing Ratio:

4.5 quarts to a maximum 5.0 quarts per 50 lbs bag.

Approximate Coverage:

25 sq. ft. per bag at 1/4"
12 sq. ft. per bag at 1/2"

Substrate Preparation:

All gypsum sub-floors must be solid, clean, and free of oil, wax, grease, asphalt, latex compounds, curing and sealing compounds and any contaminant that might act as a bond breaker. Where needed, scrape residual non-water-soluble adhesives down to a thin, well-bonded residue. Water-soluble adhesives

must be mechanically removed. Acid etching, the use of adhesive removers, and sweeping compounds are not acceptable means of cleaning the substrate. The gypsum surface must be dry and properly primed for a successful installation. Substrate temperatures must be a minimum of 50°F for the installation of Level Finish GS-L.

Wood sub-floors must either be solid hardwood flooring, a minimum of 3/4" tongue-and-groove, APA-rated Type 1, Exterior Exposure plywood, or approved OSB underlayment board. The sub-floor must be constructed according to prevailing building codes and must be solid and fixed securely to provide a rigid base free of undue flex. Any boards exhibiting movement must be re-nailed. The surface of the wood must be clean and free of oil, grease, wax, dirt, varnish, shellac, or any contaminant that might act as a bond breaker. If necessary, sand down to bare wood. A commercial drum sander can be used to sand large areas. Do not use solvents, strippers, or cleaners. Vacuum all dust and debris. Open joints should be filled with CMP's **Ultra Finish**. It is the responsibility of the installation contractor to ensure that the sub-floor is thoroughly clean and properly anchored prior to the installation of G-SL.

Note: This product is intended for interior use, above grade, over dry substrates only. Do not use in areas that will be exposed to moisture. This product is not a vapor barrier and will allow passage of moisture vapor. Follow the directions from the selected flooring manufacturer regarding the suitability of the specified floor covering to be installed over a gypsum substrate. Follow the recommendations as to the maximum allowable substrate moisture content and test the substrate prior to installing the G-SL.

Substrate Priming:

Existing gypsum substrates or areas of replacement over standard absorbent concrete: Gypsum and concrete surfaces require two coats of LF Primer. Make an initial coat of LF Primer mixed with 3 parts water using a soft push broom. Do not leave any bare spots. Remove all puddles and excess primer. Allow thorough drying such that the film of primer does not re-emulsify in water before proceeding with the second application of primer using LF Primer diluted 1:1 with water. Allow thorough drying as above to a clear, thin film (usually 3 hours, but less than 24 hours).

Wood sub-floors: Prime with LF Primer neat and apply directly over wood substrate. Do not dilute. Apply with a low-nap or sponge paint roller, leaving a thin coat of primer. Do not leave any bare spots. Brush off puddles and excess primer. Allow drying to a thin, clear film (usually 3 hours, but less than 24 hours).

Replacement of small areas down to the original substrate to include non-porous substrates, burnished concrete, terrazzo, quarry and ceramic tile, and extruded polystyrene insulation: Prime the prepared substrate with EP-440 Epoxy Primer. Mix Part A (blue) with Part B (white) and apply with a short-nap or sponge paint roller, leaving a thin coat of primer. Do not leave bare spots. Brush off puddles and excess primer. Allow primer to dry overnight to a thin, slightly tacky film (maximum 24 hours).

Caution: EP-440 Epoxy Primer must be applied in a thin layer within one hour of mixing. A thick coat will produce a soft and rubbery surface which can result in cracking.

Note: In the case of replacement areas, the edges of the existing gypsum must also be primed as above. Do not install G-SL over primer that has not had the adequate time to dry.

Mixing and Installation:

Important: To insure installation success, be sure to test a small area for compatibility, bond strength and performance.

Note: Before application, close all doors, windows and protect from direct sunlight. These variables can cause uneven curing patterns.

Note: CMP also recommends setting up a "mixing station" where all product mixing takes place. Dusting usually occurs in the area where the product is mixed and could have a negative affect on the bond to the substrate. Limiting the area where mixing occurs can assure that the floor will be kept clean and "Bond-Breaker" free.

Manual Installation:

Mix 2-bags of G-SL at a time. For each bag add 4.5 quarts to a maximum 5.0 quarts of clean potable water into a mixing drum. Then add the G-SL bags, while mixing at full speed with a paddle mixer attached to a heavy duty 1/2" drill (min. 650rpm). Mix completely for a minimum of 2-3 minutes until lump free, adding no additional water.

Pour the blended G-SL on the floor and disperse with the CMP-GR-1 gauge rake, followed by smoothing the material with the CMP-SP-1 smoother. Cleated shoes must be worn to avoid leaving marks. G-SL will maintain its workability and leveling properties for 25 minutes

Pumping Applications:

Please contact CMP Specialty Products, Inc for instructions on recommended pumping procedures and equipment.

Thickness:

G-SL can be extended and installed up to 5" thick. Please contact CMP's technical service department regarding job specific extension procedures.

Curing:

G-SL is self curing self leveling underlayment. Do not use damp curing methods or curing and sealing compounds.

Protect G-SL from excessive heat conditions during its initial curing stage. Turn off all forced ventilation and radiant heat systems for the first 24 hours.

Flooring Installation:

Finished floor covering materials can be installed after the underlayment has dried completely. Drying time will be a function of jobsite temperature and humidity conditions, as well as the installation thickness. While a 1/2" thick installation may be dry enough for some types of floor covering after only 2 or 3 days, additional drying time may be necessary for deeper installations or for the installation of more moisture sensitive flooring.

After allowing a minimum of 48 hours of drying time after application, test for substrate dryness of the G-SL by placing a piece of heavy plastic or a smooth rubber mat down over a 2' X 2' area. Let the barrier material sit for at least 24 hours and then lift the barrier material and inspect for surface darkening. A darkened

area indicates excessive moisture is still present and further drying time is required.

Application Tools:

- CMP-MD-1 Mixing Drum
- CMP MP-1 Mixing Paddle
- CMP GR-1 Depth Gage Spreader
- CMP SP-1 Surface Smoother
- 1/2" Heavy Duty Drill

Clean Up:

Use water to clean all tools prior to material hardening.

Packaging:

50 lbs. Bags / 50 bags per pallet / 2500 lbs per pallet
3000 lbs "Super Saks"

Storage:

Always keep in cool/dry place unexposed to sunlight.

Shelf Life:

12 months from the manufactured date.

Health and Safety:

Refer to the MSDS before using this product.