



# DEPENDABLE®



DEPENDABLE GSL is an exciting, unique polymer modified gypsum cement self-leveling underlayment for use over virtually all interior surfaces. Pumpable or pourable, GSL delivers high strength, good water resistance and outstanding adhesion. Applications from nearly a feather-edge up to 3" depth can be achieved in a single pour. GSL remains flowable for nearly an hour, yet will withstand foot traffic at any depth in about two hours. This product offers high density, yet less finished weight and more flexibility than Portland cement self-levelers.

## Features and Benefits

- Covers virtually any surface (*even encapsulates inferior gypsum products*)
- Durable high strength gypsum
- Outstanding heal
- Long working life – 45-60 minutes
- Non-alkaline – adhesive friendly
- Non-staining – mildewcide protected
- Thickest single pour – over 3 inches
- Withstands construction/renovation traffic

## The DEPENDABLE Difference

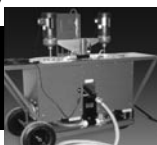
- Best over Suspended Substrates
- As little as 1/8" coverage over other surfaces (example: radiant heat tubing)
- Ready to use
- Will not dust or crack (sealing not required)

## Where to use...

DEPENDABLE GSL is ideal for use over suspended substrates and is particularly compatible with lightweight concrete, gypsum, metal, radiant heat tube and other subfloor conditions where Portland cement materials may be less desirable and will perform as well or better than cement in dry interior conditions.

(See usage and limitation information on reverse side)

**DEPENDABLE Mixer Pump & Tools  
Are Available**



## PHYSICAL CHARACTERISTICS

**Heal Time:** 45-60 minutes

**Final Set Time:** 2 hours

**Ready for Covering:** 4 to 24 hours  
(up to 1/4", deeper dependent on drying.)

**Compressive Strength:** 5000 psi (34.5 MPa)

**Flexural Strength:** 1,716 psi (12 MPa)

**Tensile Strength:** 625 psi (4 MPa)

**Wet Density:** 120.20 lb./cu. ft. (for light weight, see GSL LITE)

**Dry Density:** 111.0 lb./cu. ft.

**Yield:** .41 cu. ft. (.012 m<sup>2</sup>) 40 lb. bag

**Coverage:** At minimum flowable thickness, (1/8") (3 mm), about 1 sq. ft. per pound.

**Minimum Depth:** 1/8" (3mm)

**Maximum Depth:** Over 3" (75mm)

**Mix Ratio:** 40 lb. bag to 1 gallon water (10 lbs. to 1 qt.)  
18 kg. bag to 3.79 liters of water.

**Application Conditions:** Surface and product over 45°F (7°C) and application must not freeze for 7 days.

**Color:** White

**Admixture:** Cool, clean WATER ONLY

**Priming:** PRIMER SL™ required. Primer coverage is 1 gallon to about 250-300 sq. ft. (3.8 liters per 23 to 28 sq. meters).

## PACKAGING

### GSL

**40 lb. (18 kg.) bag** Kraft paper, double wall bag

### PRIMER SL

**5 gal. (19 liter) pail** With pour spout

**1 gal. (3.8 liter) bottle**

## PREPARATION AND APPLICATION

### SURFACE PREPARATION...

To maintain warranty, subfloor must be properly primed. Use **DEPENDABLE PRIMER SL** on all surfaces. All supporting surfaces shall be structurally sound, solid, free of movement and well bonded. They shall be free of dust, oil, grease, tar or other contaminants that may act as a bond breaker. Do not apply over single stripwood floors or over wood subfloors prone to excessive swelling (not exterior glue or "underlayment" grade). Porous substrates will require more than one coat. Make sure that the substrate is properly primed/sealed before continuing.

### CONCRETE FLOORS

Remove all foreign matter by mechanical means. Floor must be free of efflorescence and excess moisture. To check moisture, test with a calcium chloride test (ASTM F1869), or relative humidity (insitu probe) test (ASTM F2170). To correct moisture problems, see **DEPENDABLE'S** moisture protection products.

Subsurface must be essentially watertight, as **GSL** is extremely flowable. Make sure any holes, cracks, etc. that would permit material through to a lower level are patched or filled with **DEPENDABLE WHITE SKIMCOAT™** or **POLYSKIM®** prior to priming.

Application over textured surfaces generally gives best bond. Extremely smooth, glazed tile may be abraded. Steel troweled concrete can be scarified or bead blasted to give a suitable surface. A test patch for adhesion should be performed if the installer is in doubt. Before starting installation, establish the level around the area to be filled with a transit, level or laser device. Mark a "do not exceed" level around room or area perimeter by snapping a line or marking a minimum level by setting coated nails or screws just below the level to be achieved.

### PRIMING

Use a long handled roller, soft bristle broom, or paint brush to apply **DEPENDABLE PRIMER SL** at full strength. Do not dilute.

Do not cover until very tacky or dry (about 1 hour).

### MIXING

Mix 1 bag of **GSL** into 1 gallon (3.785 liters) cool clean water (10 lbs. to 1 qt. water or 5 kg. to 1 liter water). **GSL** can be mixed in large quantity in mortar mixers or special pumps or in smaller quantities (up to 3 bags) in a 20-40 gallon container. Use only a very clean mixing container that does not contaminate **GSL** with other material. Predampen container to provide proper first mix. Pour in proper amount of water and then add powder while mixing. Do not over-water. If a problem is encountered with the mixing device getting a lump and powder free mix, try starting with 2/3 of proper water, adding powder until just wetted, then adding remainder of water and thoroughly mixing. Mix with a D-1 mixing paddle or similar tool or device designed to avoid air entrapment at a slow mix (about 150-450 RPM). Mix for at least 2 minutes, but no longer than 3 minutes to a homogenous lump-free mixture. Do not shake. To check flow rate, pour 8 oz. (236 ml) of mixed material onto a smooth impervious or primed substrate. The resulting patty size should have a diameter of approximately 12.5 inches (31.75 cm).

**Extending mix with aggregate:** Although **GSL** may be used as thick as 3" in a single neat layer, when filling an area to a thickness of 1" or greater, **GSL** may be extended with aggregate. This will provide a rougher finish, and a neat second layer of **GSL** would be required for very smooth finish. First mix **GSL** neat as previously instructed. Then slowly add 15 lbs. of well-graded washed silica aggregate 3/8" or less in size (pea gravel). Ensure the aggregate is completely coated. **GSL** mixed with aggregate is less flowable and will require additional work to place and level the material. Allow mix to harden and dry before applying a neat layer.



### APPLICATION

Pump or pour contents onto floor. Because **GSL** is very flowable, allow it to build in one area until it reaches at least desired depth and maintains that depth even as material flows away. Begin at a corner of room or at a deep part of fill. Plan the pour before starting. Either work back and forth along a line of the room or from the center of the fill outwards in all directions to keep pouring against the freshest material possible. Lightly work the transition points between pours and material over or under desired depth with a D-2 screed or spreader set to the desired depth or lightweight float or straightedge. Material should remain highly flowable and can be walked in for over 45 minutes at normal temperatures. Any imperfection can be smoothed by surface troweling or drawing a straightedge or D-3 smoother over the surface. As material gets stiffer and begins to gel, it may be smoothed or troweled to a fine edge. Once material begins to gel, stay off the area for about 1 hour, after which floor should bear foot traffic. In very hot or windy conditions, protect from wind and mist fog floor. Direct sunlight, heat and wind can cause rapid drying of the product which may reduce working time. To avoid rapid drying, provide protection against these elements. Let material continue to dry before covering until evaporative moisture lessens. Moisture level may be checked by a surface moisture meter, a plastic film taped to the floor, or a plastic bucket left on the floor and the area carefully observed for residual surface moisture upon removal. In thin 1/4" application, may be covered in 4-24 hours depending on drying conditions (temperature, humidity, thickness) and requirements of adhesive and floor covering. For impervious coverings (vinyl, laminate, etc.), be sure **GSL** is thoroughly dry (at least 16-24 hours). For pours deeper than 3/8", requires longer time or forced drying.

**Multiple Lifts:** **GSL** may be placed in multiple lifts or layers. Allow the previous layer to harden and dry until there is no discernible evaporation. Once dry, prime again with **Primer SL** and apply the next **GSL** layer. Remember thicker areas of product take longer to dry.

**NOTE:** Temperature and humidity levels affect the drying characteristics of **GSL**. However, unlike Portland cement materials, **GSL** may be force dried with the use of heat or fans once set.

### LIMITATIONS

**For interior use only. Do not use...**

- where hydrostatic pressure (water) is present or moisture emission exceeds level permitted for installed floor covering.
- where surface or ambient temperature falls to or below 45°F 72 hours before or after installation.
- over presswood, particle board, masonite, chipboard, single stripwood floors, luan or similar dimensionally unstable materials susceptible to moving or swelling.
- as a troweled patch or at less than natural minimum flow thickness.
- Exterior, exposed applications or as a wear surface.

### GUARANTEE

Manufacturer guarantees its product to be free of defects and the extent of its warranty is limited to the purchase price of its product only if proved defective when used as directed. There are no other warranties or guarantees expressed or implied, and no salesman, agent, distributor or dealer has authority to extend, alter or waive these provisions.



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NON-TOXIC and NON-FLAMMABLE  
Keep container closed and keep away from children. May cause slight eye abrasion or irritation if spilled or rubbed in eyes. Flush thoroughly with water.  
If taken internally, call a physician.

**Technical Assistance:**

**Visit Our Web Site at [www.floorprep.com](http://www.floorprep.com)**