



Premium Gypsum based self leveling underlayment for use over distressed Gypsum subfloors, light weight concrete, mud beds, structurally sound wood substrates and adhesive residue

## DESCRIPTION:

LP-1 is a high strength Gypsum based self leveling that can be installed from 1/4" up to 3" thick without extension. It is designed for use over distressed Gypsum subfloors, light weight concrete, mud beds, structurally sound wood, adhesive residue and it is ideal for use on radiant or in-floor heating systems.

LP-1 can also be used for certain "Low -Prep" and decorative applications; consult CMP Technical for approval. It is ready for finished flooring in as little as 48 hrs. depending on thickness and site conditions.

## PRODUCT FEATURES

- ▶ Ideal for pumping or barrel mix applications
- ▶ Maintains healing properties for up to 20 minutes
- ▶ Exceptional compressive strength - 5000 psi
- ▶ Suitable for use with in-floor hydronic and electric radiant heating systems
- ▶ Ideal for repairing distressed Gypsum and structurally sound wood substrates
- ▶ Can be used over Mud Beds and Lightweight concrete
- ▶ No dangerous emissions or irritating fumes
- ▶ Ideal for Low-Prep applications (Consult CMP Technical)
- ▶ Gypsum/Cement hybrid formulation for rapid strength gain
- ▶ Environmentally friendly - Contributes points to LEED Certified Projects

## SUBSTRATE PREPARATION:

*NOTE: LP-1 is not a Vapor Barrier and can only be used over dry substrates in areas not subject to moisture. If the substrate exceeds 3 lbs. (MVER) or 85% (RH) or the readings exceed those of a Coatings, Adhesive or Flooring Manufacturer's product that will be applied, (Whichever is Stricter) use CMP V-20 Plus or V-25.*

ALL: Surfaces must be clean, sound, DRY, 50° F and free of felt paper, oil, wax, grease, sealers, curing compounds, urethane, paint, asphalt, loose surface material or any contaminate that will act as a bond breaker. Never use Acid or Mastic Removers on any surface to which a CMP product will be applied.

**GYPSUM UNDERLAYMENT:** Distressed Gypsum underlayment must be completely dry, sound free of cracks and well bonded. Remove any loose patching materials then sand and vacuum thoroughly.

**LIGHTWEIGHT CONCRETE:** Must be fully cured, completely dry and sound. Remove weak or latent surfaces down to solid sound concrete by mechanical means such as shot-blasting, grinding or scarifying.

**MUD BEDS:** Well bonded tile and thinset can remain; remove any weak or sandy areas of the bed down to sound solid material and thoroughly vacuum.

**WOOD:** Prepare by sanding down to clean bare wood. Secure loose boards with deck screws and fill open seams with PrepStar. Subfloors must be minimum 3/4" solid hardwood, untreated, APA Rated, tongue & groove, Type 1, exterior grade, plywood, OSB or equal. The subfloor must be free of deflection (minimum L/360), considering both live and dead loads.

**ADHESIVE RESIDUE:** LP-1 can be installed over Cutback and sound, non-water soluble adhesive residues that are free of tack and well bonded to the substrate. Remove any loose patching materials below the adhesive and avoid applications where heat will soften or the adhesive.

**03 54 00**

Cementitious Underlayments

3

**09 80 00**

Floor Finishes

9

### Packaging:

50 lb. bag : 48 per pallet  
2500 lb. "Super Sack" : 1 per pallet

### Color:

Light Tan

**Shelf Life:** Store in cool, dry area 70° F  
6 Months

### Water Requirements:

5.5 quarts per 50 lb. bag

### Aprx. Coverage (Yield): Per 50 lb. bag

50 sq. ft. @ 1/8" — 25 sq. ft. @ 1/4"

### Installation Thickness:

1/4" - 3" Neat, 5" Properly Extended

### Installed Weight (per Sq. Ft.)

2.15 lbs. @ 1/4"

### Application Temperature Range:

50° F - 95° F Note: Above 85° F use ACI  
Hot-Weather Application Guidelines

### Set: ASTM C-191 (70° F - 50% RH)

Flow Time: 20 - minutes

Final Set: 60 - minutes

### Accepts Coverings: (70° F, 50% RH)

48 Hours Minimum (See DRYING:)  
Drying is a product of thickness, temperature, humidity, and jobsite conditions. Always conduct multiple test to determine if underlayment is dry.

*Note: Cooler temps, inadequate ventilation, higher humidity and thickness will extend drying time.*

**PRIMING:**

**GYPSUM, LIGHTWEIGHT & MUD BEDS:** These substrates require two coats of AS-100 Primer. Dilute the initial coat 3 parts water to 1 part primer. Pour out or spray liberally on very porous substrates and disperse with a soft exploded tip push broom. Allow primer to penetrate while working into the surface, do not leave any bare spots and broom out any puddles that form while primer is drying. Allow to dry minimum 2 hrs. then pour out and apply a second coat diluted 50/50 in the same manner. Broom out all puddles. Allow primer to dry (min. 2 hrs, max. 24 hrs).

**WOOD & ADHESIVE RESIDUE :** Apply one thin coat of AS-100 primer "Neat" do not dilute. Use a 3/8" nap roller, Do Not leave any bare spots or puddles. Allow to dry (min. 2 hrs. - max. 24 hrs).

**MIXING:**

Mix 2-bag batches of LP-1. For each bag add a maximum 5.5 quarts of clean, cold, potable water into a CMP mixing drum. Then, add bags of LP-1 while mixing at full speed with a CMP mixing wand attached to a heavy duty 1/2" drill (minimum 850 rpm). Mix completely for 2-3 minutes or until lump free adding No additional water. Keep the mixing wand immersed in the material to avoid entraining excess air.

**INSTALLATION:**

**BARRELING:** Pour the blended LP-1 on the floor immediately and disperse with a CMP gauge rake followed by finishing with a CMP smoother. Plastic athletic type cleats should be worn when using smoother to avoid leaving marks. LP-1 will maintain its leveling properties for up to 20 minutes. For Radiant Heat applications turn system off for a minimum of 24 hrs before and 48 hrs after placement.

**PUMPING:** Deep placements and large projects are more efficiently installed with the use of a pump. Contact CMP for instructions, recommended pumping procedures and approved equipment.

**EXTENSION:**

LP-1 can be installed from 1/4" up to 3" Neat, but can be extended for deeper application or to reduce consumption. Contact CMP's technical service department regarding job specific extension procedures.

**DRYING:**

Finished floor covering materials can be installed after LP-1 has dried completely. Drying time will be a function of jobsite temperature, humidity, conditions, and installation thickness. Maintaining temperature and adequate ventilation will greatly aid in drying. After 48 hrs. place tests to check LP-1 for dryness. Duct tape 2' x 2' pieces of heavy plastic in different locations. Let the test sit undisturbed for 24 hours, then lift the plastic and inspect for surface darkening. A darkened area indicates moisture is still present and further drying time is required.

**PRODUCT NOTES:**

Do not use damp curing methods or curing and sealing compounds LP-1 is self curing. Protect LP-1 from excessive heat conditions and drafts during its initial curing stage (24 hrs). Maintain adequate ventilation throughout curing and drying process.

Expansion and isolation joints must be reflected through LP-1.

Clean with water immediately after use or by mechanical means once dry.

**Compressive Strength: (ASTM C-109)**

4 Hours	1000 psi	6 .9 MPa
1 Day	2500 psi	17.1 MPa
28 Days	5000 psi	34.1 MPa

**Flexural Strength: (ASTM C348)**

28 Days	>1500 psi	10.3 MPa
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**Tensile Strength: (ASTM C 190)**

28 days	>570 psi	4.0 MPa
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**Flammability: (ASTM E84)**

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

**Eligible LEED® credits : 5**

Recycled Content (MR 4.1 & 4.2)  
 2 Points

Regional Materials (MR 5.1 & 5.2)  
 2 Points

Low Emitting Materials (EQ 4.1)  
 1 Point

**Warranties:**

Standard - 1 Year Product  
 Qualifying - CMP Extended & Gold Seal

**Health & Safety:**

Always refer to the Material Safety Data Sheet (MSDS) prior to using this product for full Health, Safety and Handling guidelines. MSDS sheets are available by calling 215.672.6364 or you can visit [www.cmpsp.com](http://www.cmpsp.com)

For Professional Use Only  
 KEEP OUT OF REACH OF CHILDREN

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