DESCRIPTION:

LP1 is a premium, hybrid gypsum / cement based self leveling that can be installed from 1/4" up to any thickness without extension. It is designed for use over distressed Gypsum subfloors, light weight concrete, mud beds, structurally sound wood, asphalt, adhesive residue and it is ideal for use on radiant or in-floor heating systems.

LP1 can also be used for certain “Low-Prep” applications where shot-blasting and mechanically cleaning substrates cannot be done. LP1 provides a strong durable substrate for floor coverings such as rubber, sheet vinyl and vinyl composition tile (VCT).

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 sound wood substrates
- Can be used over Mud Beds, asphalt and Lightweight concrete
- No dangerous emissions or irritating fumes
- Ideal for Low-Prep applications
- Gypsum/Cement hybrid formulation for rapid strength gain
- Contributes points to LEED® Certified Projects

SUBSTRATE PREPARATION AND PRIMING BY SUBSTRATE:

GENERAL NOTE: LP-1 is not a Vapor Barrier and can only be used over dry substrates, on or above grade, in areas that are not subject to moisture. All slabs on grade must have a known, intact vapor barrier directly below the concrete. Test per ASTM F-1869 for (MVER) and ASTM F-2170 for (RH). Do not use LP-1 if the readings exceed 3 lbs. (MVER), 75% (RH) or those permissible by a Coatings, Adhesive or Flooring Manufacturer’s product that will be applied.

ALL: Surfaces must be clean, sound, DRY, 50˚F and free of felt paper, oil, wax, grease, sealers, curing compounds, urethane, paint, loose surface material or any contaminant 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, LIGHTWEIGHT CONCRETE, ASPHALT AND MORTAR BEDS:

Preparation: 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 any loose patching materials then sand and vacuum thoroughly.

Over 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.

Priming (Requires two coats): The first coat should be diluted and applied at 1 part AS-100 : 3 parts water using a split tip broom. Pour out and work into surface, leave no puddles or bare spots. After initial coat is dry (30-60 minutes) apply the second coat of AS-100 using 1 part water to 1 part AS-100 and place using a split tip broom. Pour out and work into surface, leave no puddles or bare spots. Apply LP1 once AS-100 is dry (Minimum 1 hour) and up to 24 hours. If Primer has dried longer than 24 hours a second coat of AS-100 may be required.

Thickness: 1/4" up to 3"
WOOD:
NOTE: Wood must be a maximum 3/4, untreated, APA Rated, Type-1, exterior grade, plywood, OSB or equal.

Preparation: Sand 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.

Priming: Apply one thin coat of AS-100 (Undiluted) using a 3/8" nap roller. Apply LP1 once AS-100 is dry (Minimum 1 hour) and up to 24 hours. If AS-100 has dried longer than 24 hours a second coat of AS-100 may be required.

Thickness: 1/4" up to any thickness.

ADHESIVE RESIDUE:
Preparation: LP1 can be installed over Cutback and sound, non-water soluble adhesive residues that are free of tack and well bonded. Remove any loose patching materials below the adhesive.

Priming: Apply one thin coat of AS-100 (Undiluted) using a 3/8" nap roller. Apply LP1 once AS-100 is dry (Minimum 1 hour) and up to 24 hours. If AS-100 has dried longer than 24 hours a second coat of AS-100 may be required.

Thickness: 1/4" up to any thickness.

MIXING:
Add 5.0 quarts per 50 lb. bag of clean potable water to a CMP mixing drum. Then, add bags of LP1 while mixing at full speed with a CMP mixing wand attached to a heavy duty 1/2" drill (min. 650 rpm). Mix for 2 minutes or until lump free. Add No additional water and keep the mixing wand immersed in the material to avoid entraining excess air.

INSTALLATION:
Barrel Mixing: Pour the blended LP1 on the floor immediately and disperse with a CMP gauge rake followed by finishing with a CMP smoother. Plastic athletic cleats should be worn when using the smoother to avoid leaving marks. LP1 will maintain its workability and healing for up to 20 minutes.

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 (such as mtec Duo-Mix 2000).

NOTE: During application and for first 24 hours prevent excessive air movement but maintain adequate ventilation and protect material from direct sunlight. These variables can cause uneven curing patterns, a false set or cracking.

DRYING:
NOTE: Test as per ASTM D4263. Testing must be conducted under climatized conditions.

Finished floor covering materials can be installed after LP1 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 LP1 for dryness. Tightly, Duct tape all four sides of 18”x18” pieces of (3-4 mil) plastic in different locations. Do at least one for each 1000 sq. ft. of area being tested. Let the tests sit undisturbed for 16 hrs. minimum, then lift the plastic and inspect for surface darkening. Darkening indicates moisture is still present and further drying time is required.

EXTENSION:
Please contact the CMP Technical Department for specific extension procedures.
APPLICATION NOTES:
1. It is the responsibility of the contractor to review the complete technical datasheets of CMP products referenced above as more detailed information may be required. The information provided above acts only as a general guideline and may vary based on job site conditions.
2. Expansion or isolation joints and working cracks must be reflected through LP1.
3. LP1 is self-curing no wet curing methods or cure and seals should be used.
4. If LP1 begins to set before it is applied, DO NOT re-temper by mixing or adding additional liquid.
5. On new concrete always test for Cure and Seals which inhibit the bond. If Cure and Seals are present they must be removed by mechanical means prior to applying LP1.
6. Always refer to the TDS of any other CMP product referenced for its full instructions and limitations.
7. Do not use over materials containing Asbestos.
8. While a 650 rpm drill does work, we do recommend a drill that is 850 rpm’s. This higher rpm will allow for faster more uniform mixes.

COVERAGE CHART: (GUIDELINE - MAY VARY DEPENDING ON SUBSTRATE CONDITIONS)

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Eligible LEED credits : 3
Recycled Content (MR 4.1 & 4.2) 2 Points
Low Emitting Materials (EQ 4.1) 1 Point

STORAGE:
Store in cool dry place. Tightly seal package and do not expose to sun.

FLAMMABILITY: (ASTM E-84)
Flame Spread: -0-
Fuel Contribution: -0-
Smoke Development: -0-

VOLATILE ORGANIC COMPOUNDS
0 g/l

CLEAN UP:
Clean tools with water immediately after use or by mechanical means once dry.

HEALTH AND SAFETY:
Always refer to the Safety Data Sheet (SDS) prior to using this product for full Health, Safety and Handling guidelines. SDS sheets are available by calling 267.522.8000 or you can visit www.cmpsp.com

For Professional Use Only
KEEP OUT OF REACH OF CHILDREN