

Platform ALGTM

Advanced Liquid Gypsum Self-Leveling Underlayment

PACKAGING

- 45 lb (20.4 kg) double wall bag

SUITABLE SUBSTRATES

Platform ALG is designed for use over:

- Gypsum Underlayment
- Approved Wood Subfloors
- Approved adhesive residue
- Well-bonded, residual, non-water-soluble and dust free surfaces
- Compromised substrates
- Mud beds, Lightweight Concrete

Platform ALGTM is a micro-fiber reinforced, advanced polymer, easy to apply gypsum based self leveling underlayment. Platform ALG is a super high-flow leveler with outstanding coverage and flattening abilities. It is ideal for use over existing gypsum, wood and other dry, compromised substrates. Platform ALG may be used over approved wood subfloors without reinforcing lath and quickly provides a high compressive and flexural strength substrate for a wide variety of floor finishes, in less time.

Features

- › Superior flexural strength
- › Designed for approved wood, gypsum and other difficult to bond substrates
- › Fast strength build with 28-day strength greater than 6000 psi
- › Install flooring in as little as 6 hours after placement at 1/4" depth
- › Non-alkaline – adhesive friendly
- › Withstands construction/renovation traffic with a fast return to service.

Properties

Compressive (ASTM C109M) (Modified - Air cure)	24 hours	>2000 psi
	7 days	>4000 psi
	28 days	>6000 psi
Flexural Strength	> 1800 psi	
Working Time	20-30 Minutes	
Time to foot traffic	1-2 hours	
Time to flooring (with proper HVAC air exchange)	Breathable Flooring: 1/4" depth - 6 hrs to flooring, 8 hrs per additional 1/4"	
	Non Breathable Flooring: 1/4" depth - 6 hrs to flooring, 12 hrs per additional 1/4"	
Application Conditions	50°F to 90°F (10°C to 32.2°C)	
Flammability	Flame Spread 0, Smoke Development 0 Acceptable for use on UL Fire Rated Floor Assemblies*	
Coverage*	45 lbs - Approx. 25 sq ft @ 1/4"	
Water per 45lb unit	4.5 – 5 qt (4.25 – 4.75 L) per 45 lb (20.4 kg) bag	
Color	Light Gray	
Shelf Life	12 Months when unopened & stored per instructions	
SKU		

All specifications were tested in laboratory conditions: 70°F in a controlled environment using our approved water content. Changing the temperature, or mixing ratios, or the environment can affect these specifications. Call Technical Services if you have any questions.
 *Coverage shown is for estimating purposes only. Actual job site coverage may vary according to substrate conditions, type of equipment, thickness applied and application methods used.

General Guidelines

This product is designed for application and use in dry, properly prepared interior environments only. Address sources of water exposure prior to installation and avoid installation in environments where ongoing moisture exposure is likely. ALG is not recommended for use below grade.

Do Not Use:

- Where hydrostatic pressure (water) is present or moisture emissions exceed the level permitted for finished floor covering, if the floor covering's moisture permeability does not meet or exceed the moisture content of the slab, Platform recommends moisture remediation. Use Platform EMS, or an approved alternative, to remediate moisture in concrete, consult the Platform EMS data sheet, or call technical services, for more details.
- Where surface or ambient temperature falls to or below 50°F for 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.
- Exterior, exposed applications or as a wear surface.

Preparation & Application

Reference the floor covering and adhesive manufacturers documentation to verify suitability of Platform ALG as a subfloor for the flooring system (any adhesive used for concrete is generally suitable for ALG).

Moisture Assessment: Platform ALG is not a moisture barrier and will allow moisture to pass through to the finished flooring. All substrates are to be interior, dry and free from ongoing moisture and water penetration through leaks, damage or other.

Refer to installation instructions, ASTM's F710, F1869, F2170 & F3010, C1708, etc.) and all industry best practices.

Honor all moving joints. Complete crack and substrate repairs prior to installation. Consult an engineer for required joints and crack repairs prior to installation.

Maintain a minimum of 50°F (10°C) during the pour and for 72 hours after the pour or until dry. Acclimate the material to a minimum of 50°F (10°C) prior to mixing. To maximize flowability and working time, utilize cool water when temperatures exceed 85°F (29°C).

For installation over hydronic or electrical heating systems, utilize a minimum of 3/4" of material above the surface of the heating system. Platform ALG is compatible with and accepts the direct application of urethane, moisture cure and other typical floor covering adhesives.

Extension: Platform ALG can be applied in one lift to a maximum depth of 3" NEAT (in confined areas). In areas deeper than 3", extension of Platform ALG is required. Extend Platform ALG with clean, washed and SSD (saturate surface dry) 1/4 - 3/8" pea gravel up 50% by weight (22.5 lbs pea gravel per 45 lbs ALG). Ensure pea gravel is thoroughly mixed in (encapsulated) by the Platform ALG. Contact Technical services for details.

Surface Preparation

All Substrates must be sound, clean, dry and free of contaminants (oil, dirt, laitance etc.) that may interfere with adhesion. Areas of the substrate that do not exhibit a tensile pull strength greater than 72 psi are not suitable and must be mechanically removed to a sound, stable base and subsequently repaired prior to application of Platform ALG. Do not use solvents, acids or chemical adhesive removers to prepare the substrate. All bond breaking substances (cure residues, excess salts from silicates etc.) must be removed prior to priming with Platform P360. Completely vacuum all dust and debris from the substrate prior to priming.

Gypsum Substrates

Gypsum substrates must exhibit a sound surface free from dusting, chalking and surface weakness. Repair weak, soft and dusty gypsum prior to application of ALG using the recommended gypsum repair solution, such as Platform SLV or CSX. See related TDS's to determine use.

Wood Substrates

Platform ALG is suitable for use on an APA approved wooden substrates in residential and light commercial applications without use of reinforcing lath. Wood substrates must satisfy local codes, with maximum joist spacing 16" - 19.2" OC, using suitable Type 1 exterior grade plywood or equivalent OSB.

Remove contaminants (oils, wax, dirt etc) that could function as bond breakers.

Flash patch all joints and penetrations with Platform GP or FP. Ensure patch is completely dry before priming.

Single coat prime wood subfloor to a thin, shiny film with Platform P360 NEAT, without puddles or bare spots by using a 3/8" nap roller. When dry, apply Platform ALG to desired depth as per specifications.

Adhesive Residue

Platform ALG is suitable for use over well-bonded residue of non-soluble, non-PSA adhesives. Remove friable, compressible, poorly bonded adhesives prior to applying Platform ALG. Prime translucent adhesive residue with Platform P360 (NEAT), using a 3/8" nap roller.

All Substrates

Platform ALG is very flowable and will flow through voids and penetrations in the substrate. Utilize Platform GP / Platform FP to flash patch and seal all joints and penetrations. Ensure patch is completely dry before priming.

Platform ALG has tremendous bonding properties. It is recommended to isolate all vertical surfaces (walls) with a bond breaker (isolation tape or other) on vertical surfaces that will come in contact with Platform ALG during application.

Priming

Prime properly prepared substrates with Platform P360 prior to the application of Platform ALG.

Non-Porous/Non-Absorbent

For wood, adhesive residue, epoxy, epoxy terrazzo, some existing floor finishes or other non-porous materials: Prime NEAT (undiluted) without puddles using a 3/8" nap roller.

Porous/Absorbent

For gypsum underlayment, or other highly-absorbent substrates and floor finishes: Platform P360 must be diluted, generally 3:1 (Water:Primer) and applied without puddles using a soft/ fine tipped broom, allowed to dry, and followed by 2:1 (W:P) using a soft/fine tipped broom. Standard Concrete can be single-primed at 2:1 (Water:Primer). Pour onto concrete and let primer soak in for 5-8 mins, working it in with a soft/fine broom, and sweep off the excess to a thin, shiny film.

Reference Platform P360 data sheet for additional details.

Mixing

Mix Ratio:

4.5 - 5 quarts of potable water: 45 lb. bag of Platform ALG

Mix Time:

2 minutes with minimum 650 rpm drill or through pump

Over-watering and/or under mixing (failing to generate adequate shear) will result in lower ultimate compressive strengths. Add designated clean, potable water to a clean mixing barrel, then gradually add the powder and mix at the designated speed for 2 minutes. Ensure all material is homogenous, and no dry lumps or unmixed material is at the bottom of the mixing barrel. While mixing, keep the paddle below the surface of the material to reduce introduction of excess air into the mix. Once mixed, immediately pour onto the substrate to maximize material flow and placement time.

Platform ALG may be mixed and/or pumped with most standard batch or inline mixing/ pumping equipment. Contact Technical services for pump questions.

Material Application

Immediately after mixing is complete, pour the Platform ALG on the substrate, gauge rake or trowel to the required depth and smooth using appropriate tools (smoother or porcupine roller). When placing newly mixed material, maintain a wet edge, always pouring back into the leading edge of the previous placement.

Drying Time

Do not use forced air to assist in drying Platform ALG during application but do provide adequate ventilation (venting) and continuous circulation of air in the application area. Platform ALG generally hardens to accept light foot traffic 1-2 hours after placement. Avoid construction traffic for a minimum of 16 hours (temperature dependent).

Platform ALG requires suitable conditions for drying, do not wet cure or use curing or sealing compounds. Do not introduce heavy airflow to the surface of Platform ALG until after 4 hours of drying. Depth of application, water utilized in mixing, ambient temperature, humidity and airflow all impact drying time. Reduced water, higher temps and proper air exchange will enhance drying performance.

The use of a moisture meter is recommended to verify readiness for flooring. Multiple areas should be surveyed to ensure dryness throughout. The PROTIMETER Surveymaster® or Aquant®, the Delmhorst Navigator® BDX Series, and the Tramex CME5 or CMEX5 are all generally acceptable for use to indicate suitable dryness for any floor covering. In all cases, floor covering and adhesive manufacturers' recommendations supersede all others.

General drying guidelines assuming ambient temps of 70°F and ambient humidity of 50% with continuous air circulation:

Breathable Flooring Systems

Install breathable flooring systems after 6 hours at a 1/4" depth. Increase this time by 8 hours for each additional 1/4" of depth desired.

Non-Breathable Flooring Systems

Install non-breathable flooring systems after 6 hours at a 1/4" depth. Increase this time by 12 hours for each additional 1/4" of depth desired.

Platform ALG dries to a hard, dense surface. Prime dried Platform ALG prior to application of cementitious adhesive or patch as per manufacturers specifications. In all cases, floor covering and adhesive manufacturers' recommendations supersede all others.

Clean-Up and Disposal

Wash hands and tools with water before the material hardens, or within 10 minutes of material contact to ensure easiest removal. Cured material must be removed mechanically. Dispose waste or excess material in accordance with all local, state and federal regulations. Hardened material is generally considered construction waste.

Storage

Store in cool and dry conditions out of direct sunlight with pallets wrapped in original shrink wrap.

LIMITED WARRANTY

Platform Performance Flooring Systems warrants to the initial purchaser only that the goods sold hereunder will be free from defects in material and workmanship and, except as otherwise set forth herein, will conform to the specifications provided. If any failure to meet this warranty appears within one year from the date of shipment of the goods, on the condition that Platform Performance Flooring Systems will correct any such failure by either replacing or repairing any defective goods, at Platform Performance Flooring Systems' option. The preceding paragraph sets forth the exclusive remedy for all claims based on failure of or defect in the goods sold hereunder, whether such failure or defect arises before or during the warranty period and whether a claim, however instituted, is based on contract, indemnity, warranty, tort (including negligence), strict liability or otherwise. The forgoing warranty is exclusive and is in lieu of all other warranties whether written, oral, implied or statutory.

24 HOUR EMERGENCY: CHEMTREC®

1-800-424-9300

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.

Published technical data & instructions are subject to change without notice. Please contact Platform Performance Flooring Systems for the most current technical data, safety data & application instructions.

Technical Assistance:

Visit our website: platformperformance.com
or call

1-800-227-3434

