Product Data Sheet

PLATFORM™ PERFORMANCE FLOORING SYSTEMS
A KEENE INC. COMPANY

3 DIVISION

Cast Underlayment
03 54 00

Gypsum Cement Underlayment
03 54 13

Platform **LCB™**

Fiber Reinforced Gypsum Self-Leveling Underlayment

PACKAGING

- 50 lb (22.5 kg) double wall bag

SUITABLE SUBSTRATES

Platform LCB is designed for use over:

- Gypsum Underlayment
- Approved Wood Subfloors
- Approved adhesive residue
- Compromised substrates
- Concrete

Platform LCB™ is a fiber reinforced, polymer modified gypsum based self leveling underlayment. Platform LCB is ideal for use over existing gypsum, wood and compromised substrates. Platform LCB may be used over approved wood subfloors without reinforcing lath and quickly provides a sound, dimensionally stable and smooth surface for a wide variety of floor finishes.

Features

- Outstanding flexural strength
- Designed for approved wood and gypsum substrates
- Durable high strength specialty cement
- Acceptable for use on UL Fire Rated Assemblies
- Non-alkaline – adhesive friendly
- Withstands construction/renovation traffic

Properties

Compressive (ASTM C109M) (Modified - Air cure)	24 hours 7 days 28 days	>1200 psi >2500 psi >5000 psi
Flexural Strength	> 1700 psi	
Working Time	30 Minutes	
Time to foot traffic	2-3 hours	
Time to flooring	Breathable Flooring: 1/2" depth - 24 hrs to flooring, 16 hrs per 1/4" Non Breathable Flooring: 1/4" depth - 12 hrs to flooring, 24 hrs per 1/4"	
Application Conditions	45ºF to 85ºF (7.2ºC to 29.4ºC)	
Flammability	Flame Spread 0, Smoke Development 0 Acceptable for use on UL Fire Rated Floor Assemblies*	
Coverage*	50 lbs - Approx. 25 sq ft @ 1/4"	
Water per 50lb unit	4.75 – 5.1 qt (4.5 – 4.8 L) per 50 lb (22.7 kg) bag	
Color	Light Gray	
Shelf Life	12 Months when unopened & stored per intsructions	
SKU	DSFLCB-50	

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

Leed Credit LCD Radpid may contribute to LEED certification of projects as follows:

AREA	CREDIT	CATEGORY	HOW
Indoor Environmental Quality	EQ 4.2	Low Emitting Materials	VOC content 0g/l (calculated)
Materials & Resorces	MR 4.1, 4.2	Recycled Content	0%
Regional Manufactured Material	MR 5.1, 5.2	Regional Materials	45%

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. LCB is not recommended for use below grade.

Do Not Use:
Where hydrostatic pressure (water) is present or moisture emissions exceeds 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 45°F 72 hours before or after installation.
- Over presswood, particle board, masonite, chipboard, single stripwood floors, luaun 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 LCB as a subfloor for the flooring system (any adhesive used for concrete is generally suitable for LCB).

Moisture Assessment: Platform LCB 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, ASTMs F710, F1869, F2170 & F3010, C1708, etc.) and all industry best practices.

Not for use where hydrostatic pressure is present or moisture emissions exceeds the level permitted of the finished floor covering. Platform LCB Underlayment can tolerate any amount of moisture from a concrete slab so long as all of the moisture from the slab will escape past the floor covering. If the installation area (particularly on or below grade) is subject to moisture or the floor covering's moisture permeability does not meet or exceed the moisture content of the slab, Platform recommends moisture mitigation. Use Platform EMS, or an approved alternative, to mitigate moisture in concrete.

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 50ºF (10ºC) during the pour and for 72 hours after the pour or until dry. Acclimate the material to a minimum of 55ºF (13ºC) prior to mixing. To maximize flowability and working time, utilize cool water when temperatures exceed 85ºF (29ºC).

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

Extension: Platform LCB can be applied in one lift to a maximum depth of 3" NEAT (in confined areas). In areas deeper than 2.5", it is recommended to extend Platform LCB with clean, washed and SSD (saturate surface dry) 1/4 - 3/8" pea gravel. Applications deeper than 3" must be extended with aggregate. Extend Platform LCB up 50% (by weight - 25 lbs pea gravel per 50 lbs LCB). Ensure pea gravel is thoroughly mixed in (encapsulated) by the Platform LCB. 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 100 psi are not suitable and must be mechanically removed to a sound, stable base and subsequently repaired prior to application of Platform LCB. 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. Completely vacuum all dust and debris from the substrate prior to priming with designated primer.

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 LCB using a recommended gypsum repair solution.

Wood Substrates
Platform LCB 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. Flashpatch all joints and penetrations with Platform GP (or equivalent polymer modified gypsum patch). Ensure patch is completely dry before priming.

Single coat prime wood subfloor with Platform P360 NEAT, without puddles by using a 3/8" nap roller. When dry, apply Platform LCB to desired depth as per specifications.

Adhesive Residue
Platform LCB is suitable for use over well bonded residue of non-soluble, non PSA adhesives. Remove friable, compressible, poorly bonded adhesives prior to applying

Platform LCB. Prime Adhesive residue with Platform P360 (NEAT), using a 3/8" nap roller.

All Substrates
Platform LCB is very flowable and will flow through voids and penetrations in the substrate. Utilize Platform GP / Platform FP (or equivalent) to flash patch and seal all joints and penetrations. Prime substrate and dried patch PRIOR to applying Platform LCB.

Platform LCB 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 LCB application.

Priming

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

Non-Porous/Non-Absorbent
Wood, Adhesives, 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
Gypsum underlayment, most concretes and other absorbent substrates and floor finishes: Platform P360 must be diluted, generally 3:1 (Water:Primer) without puddles using a soft/fine tipped broom, followed by 2:1 (W:P) by soft/fine tipped broom.

Reference Platform P360 data sheet for additional details.

Mixing

Mix Ratio:
4.75 - 5.1 quarts of potable water: 50 lb bag of Platform LCB

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 LCB 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 LCB on the substrate, rake 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 used forced air to assist in drying Platform LCB during application, but do provide adequate ventilation (venting) and continuous circulation of air in application area. Platform LCB generally hardens to accept light foot traffic 2-3 hours after placement. Avoid construction traffic for a minimum of 16 -26 hours (temperature dependent).

Platform LCB 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 LCB until after 16-24 hours of drying. Depth of application, water utilized in mixing, ambient temperature, humidity and airflow all impact drying time. Reduced water, higher temps and great airflow 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 70ºF with continuous air circulation:

Breathable Flooring Systems
Install breathable flooring systems after 16 hours for each 1/4” depth of the pour.

Non-Breathable Flooring Systems
Install breathable flooring systems after 24 hours for each 1/4” depth of the pour.

Platform LCB dries to a hard, dense surface. Prime cured Platform LCB 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 shrinkwrap.

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

Phone: 877-514-5336

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