

SKIMFLOW® LCB

FIBER REINFORCED GYPSUM SELF-LEVELING UNDERLAYMENT



DIVISION

Division 3
03 54 00 Cast Underlayment
03 54 13 Gypsum Underlayment Cast



PACKAGING

SKIMFLOW® LCB
• 50 lb (22.5 kg) double wall bag

SUITABLE SUBSTRATES

SKIMFLOW® LCB's designed for use over:

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

LEED

SKIMFLOW® LCB may contribute to LEED certification of projects as follows:

Indoor Environmental Quality EQ 4.2

- Low Emitting Materials
- Zero VOC

Materials & Resources

- MR 4.1, MR 4.2**
- Recycled Content 0%
- MR 5.1, MR 5.2**
- Regional Manufactured Cleveland, OH

Skimflow LCB is a fiber reinforced, polymer modified gypsum based self leveling underlayment. Skimflow LCB is ideal for existing gypsum, wood and compromised substrates. Skimflow 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
- Compatible with UL Fire Rated Assemblies
- Non-alkaline – adhesive friendly
- Withstands construction/renovation traffic

Properties

Compressive Strength	4200 psi (ASTM C109)
Flexural Strength	1700 psi
Placement time	30 mins
Time to foot traffic	1 hour
Time to flooring	
Breathable Flooring:	1/2" depth - 16 hrs to flooring, +24 hours per 1"
Non Breathable Flooring:	1/4" depth - 16 hrs to flooring, +24 hrs per 1/2"
Temperature for application	45°F to 85°F
Flammability	Flame Spread 0, Smoke Development 0 Compatible with UL Fire Rated Floor Assemblies*
Coverage	50 lbs - Approx. 23 sq ft @ 1/4"
Yield	50 lbs - 0.46 cu ft
Water per 50lb unit	4.75 - 5.1 US qts per 50 lb bag
Color	White
Shelf life	12 months when unopened & stored per instructions

*All specifications were tested in laboratory conditions. Changing the temperature, mixing ratios, or the environment can affect these specifications. *Call Dependable technical services if you have any questions.*

PREPARATION AND APPLICATION FOR PROFESSIONAL USE ONLY

Reference the floor covering and adhesive manufacturers documentation to verify compatibility with SKIMFLOW® LCB as an underlayment for the flooring system (any adhesive used for concrete is generally suitable for SKIMFLOW® LCB). Skimflow LCB is intended for use in dry, interior environments.

For applications over concrete, follow the directions of the flooring and adhesive manufacturer to determine the maximum allowable moisture content (RH) or moisture vapor emissions tolerated by the adhesive and flooring finish.

Not for use where hydrostatic pressure is present or moisture emissions exceeds the level permitted for an installed floor covering. SKIMFLOW® 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, Dependable recommends moisture mitigation. Use Dependable's Vaporseal HM+, or an approved alternative, to mitigate moisture in concrete.

LIMITATIONS - For Interior use in dry areas only - Do not use;

- Where hydrostatic pressure (water) is present or moisture emissions exceeds level permitted for installed floor covering. If the floor covering's moisture permeability does not meet or exceed the moisture content of the slab, Dependable recommends moisture remediation. Use Dependable's Vaporseal HM+, or an approved alternative, to remediate moisture in concrete, consult the Vaporseal HM+ 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 AND APPLICATION Continued

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. Acclimate the material to a minimum of 55°F (13°C) prior to mixing. To maximize flowability and working time, utilize cool water when temperatures exceed 85°F (29°C).

Installation over hydronic radiant heating systems generally require 3/4" cover over the top of the radiant tubes. Some hydronic systems provide for reduced cover, in any case it is recommended to cover any hydronic tubing with at least 1 - 1.5x the diameter of the tubing. SKIMFLOW® LCB is compatible with and accepts the direct application of, urethane, moisture cure and other typical floor covering adhesives.

SKIMFLOW® 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 SKIMFLOW® 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 SKIMFLOW® LCB up 50% (by weight - 25 lbs pea gravel per 50 lbs LCB). Ensure pea gravel is thoroughly mixed in (encapsulated) by the SKIMFLOW® LCB. 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 SKIMFLOW® 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.

SURFACE PREPARATION

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 [FloorPrep.com Gypsum Repair Solution](#).

Wood Substrates: Skimflow 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 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 Polyskim (or equivalent polymer modified gypsum patch). Ensure patch is completely dry before priming.

Double prime subfloor with Primer A NEAT, without puddles by using a 3/8" nap roller. When dry, apply Skimflow LCB to desired depth as per specifications.

Adhesive Residue: Skimflow LCB is suitable for use over well bonded residue of non-soluble, non PSA adhesives. Remove friable, compressible, poorly bonded adhesives prior to applying Skimflow LCB. Prime Adhesive residue with Primer A (NEAT), using a 3/8" nap roller.

Concrete: Skimflow LCB is suitable over properly prepared concrete floors. Prime absorbent concrete with diluted Primer A (Typically 3:1 Water:Primer) applied by fine tipped broom. Broom primer into the surface (in North/South & East/West directions) without puddles and let dry 45-90 minutes prior to application of a second coat diluted 2:1 (W:P).

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

Skimflow 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 Skimflow LCB application.

PRIMING

Prime properly prepared substrates with Primer A prior to the application of Skimflow 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: Primer 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 Primer A data sheet for additional details.

LIMITED WARRANTY:

Dependable, LLC 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 Dependable, LLC. will correct any such failure by either replacing or repairing any defective goods, at Dependable, LLC's 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.

Technical Assistance:
Visit our website: floorprep.com or call 1-800-227-3434.

MIXING AND APPLICATION

Mix Ratio: 4.75-5.1 quarts of potable water: 50 lb bag of SKIMFLOW® 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.

SKIMFLOW® 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 SKIMFLOW® 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 use forced air to assist in drying SKIMFLOW® LCB, but do provide for adequate ventilation and circulation of air. SKIMFLOW® LCB generally hardens to accept light foot traffic 2-2.5 hours after placement. Avoid construction traffic for a minimum of 16 -26 hours (temperature dependent).

SKIMFLOW® LCB is self-drying, do not wet cure or use curing or sealing compounds. Do not introduce heavy airflow to the surface of SKIMFLOW® LCB until after 16-24 hours of drying. Thickness, temperature, humidity and airflow will impact drying time. The use of a moisture meter is recommended to verify readiness for flooring. Multiple areas should be surveyed to ensure dryness throughout. Use of a Delmhorst G-79 or BD-2100 and a reading of 5% moisture content or lower, or a GE® Protimeter moisture meter such as the Surveymaster or Aquant in the RF (Radio Frequency) mode, with a reading of 180 or lower indicates 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 with continuous air circulation:

Breathable Flooring Systems:

For applications up to 1/2", install breathable flooring systems after 16 hours.
Add an additional 24 hours of dry time for EACH additional 1" of material depth.

Non-Breathable Flooring Systems:

For applications up to 1/4", install non-breathable flooring systems after 16 hours.
Add an additional 24 hours of dry time for EACH additional 1/2" inch of material depth.

Skimflow LCB dries to a hard, dense surface. Prime cured Skimflow 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.



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