

# SKIMFLOW® LCB



## DIVISION

Division 3:  
Cast Underlayment  
03-54-00

## PACKAGING

SKIMFLOW® LCB  
• 50 lb (22.5 kg) double wall bag  
PRIMER A™  
• 5 gallon pail (19 L) with pour spout

## SUITABLE SUBSTRATES

SKIMFLOW® LCB's designed for use over wood substrates where a level surface for floor covering is desired. Unlike traditional self-leveling underlayments SKIMFLOW® LCB does not require mechanical reinforcement (lath) when poured directly onto wood.

## 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
- Regional Materials >40%

SKIMFLOW® LCB is a gypsum based self-leveling underlayment designed for use directly over wood. The product is reinforced with fibers for superior performance over flexible substrates. SKIMFLOW® LCB may be poured directly over wood without mechanical reinforcement to provide a quick dry, smooth surface for approved floor coverings.

## Features

- Outstanding flexural strength
- Suitable for plywood and gypsum subfloors
- Durable high strength specialty cement
- Outstanding heal
- Non-alkaline – adhesive friendly
- Withstands construction/renovation traffic

## Properties

<b>Compressive (ASTM C109)</b>	4200 psi
<b>Flexural Strength</b>	1700 psi
<b>Placement time</b>	30 mins
<b>Time to foot traffic</b>	1 hour
<b>Time to flooring</b>	24 hrs at 1/4" 48 hrs at 3/4"* 72 hrs at 1 - 1/2"*
<b>Temperature for application</b>	45°F to 85°F
<b>Flammability</b>	Flame Spread 0, Smoke Development 0
<b>Yield</b>	50 lbs - 0.47 cu ft
<b>Coverage</b>	50 lbs - Approx. 23 sq ft @ 1/4"
<b>Water per 50lb unit</b>	4.75 - 5.1 US qts per 50 lb bag
<b>Color</b>	White
<b>Shelf life</b>	12 months when unopened & stored per instructions

*All specifications were tested in laboratory conditions. Changing the temperature, or 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 suitability of SKIMFLOW® LCB as a subfloor for the flooring system (any adhesive used for concrete is generally suitable for SKIMFLOW® LCB). Follow the directions of the flooring and adhesive manufacturer to determine the maximum allowable moisture content (RH) or transmission of the substrate. If the moisture content (ASTM F-2170) or moisture vapor transmission rate (ASTM F-1869) of the substrate exceeds the requirements of the flooring system, utilize an approved 100% epoxy moisture vapor mitigator prior to installation of the SKIMFLOW® LCB.

Honor all moving joints. Complete crack and substrate repairs prior to installation. Consult an engineer for required joints and crack repairs prior to installation. Contact Technical Services for required surface preparation on installations that will be exposed to high rolling loads or high point loads.

## LIMITATIONS - For Interior use only - Do not use...

- Where hydrostatic pressure (water) is present or moisture emissions exceeds level permitted for 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 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.
- As a trowelled patch or at less than natural minimum flow thickness.
- Exterior, exposed applications or as a wear surface.

## PREPARATION AND APPLICATION Continued

Maintain a minimum of 50°F during the pour and for 72 hours after the pour. Acclimate the material to a minimum of 55°F prior to mixing. To maximize flowability and working time, utilize cool water when temperatures exceed 85°F.

For installation over hydronic heating systems utilize a minimum of 1.5" of material, with ¾" of material above the hydronic system. 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 monolithically. It is recommended clean, washed and SSD (saturate surface dry) 1/4 - 3/8" pea gravel is utilized in areas deeper than 3". Applications deeper than 3" must be extended with aggregate. Extend SKIMFLOW® LCB up 50% (by weight - 25 lbs pea gravel per 50 lbs L2). 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 floor 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, 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 must exhibit a sound surface, be free from dust and surface weakness prior to application of the primer.

Non-soluble adhesives must be scraped to a well bonded residue. Water soluble and pressure sensitive adhesives must be removed mechanically to the substrate (Contact Technical services for details). Verify type of adhesive prior to mechanical removal to ensure adhesive containing asbestos is not introduced into the environment. Follow all local, state and federal laws for removal and disposal of adhesive or flooring materials containing asbestos. SKIMFLOW® LCB is not for use as a suitable means to encapsulate residue of hazardous materials.

Wood floors must satisfy local building codes, utilize exterior grade plywood, suitable OSB or other resistant to water, and be free from deflection. The wood must be free of contaminants (oils, wax, dirt etc.) that could function as bond breaker prior to application of the primer.

## Priming

Prime properly prepared substrate with PRIMER A™ prior to the application of SKIMFLOW® LCB. Prime properly prepared porous (concrete) and non-porous substrates (adhesive residue, epoxy terrazzo, ceramic tile etc.) with PRIMER A™ by soft tipped broom (porous) or 3/8" nap roller (non-porous). Carefully read Primer data sheet to ENSURE Primer is utilized diluted (porous substrates) or undiluted (non-porous substrates) per given substrate.

SKIMFLOW® LCB is very flowable and will flow through any exposed voids. To avoid material flow in undesirable areas, seal voids or penetrations with a rapid setting patch or expanding foam. SKIMFLOW® LCB has tremendous bonding properties, place tape or bond breaker on vertical surfaces that will contact the SKIMFLOW® LCB. Provide a barrier between SKIMFLOW® LCB and metallic construction (e.g. heating pipes).

When applying SKIMFLOW® LCB on wood substrates double prime with Primer 360 NEAT and utilize reinforcing lath stapled to the wood floor after priming.

## Mixing

**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, 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 mix. During mixing, keep the paddle below the surface of the material to reduce introduction of excess air into the mix. Once mixed, pour onto the substrate immediately to maximize material flow and placement time.

## Pumping

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

## Material Applications

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

**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®  
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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.



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**info@dependable.us** 800 | 227 | 3434  
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