



**3**  
DIVISION

Cast Underlayment  
03 54 00

Gypsum Cement  
Underlayment  
03 54 13

# LCB RAPID

## Rapid Setting, Fiber Reinforced Self-Leveling Underlayment

### PACKAGING

- 50 lb (22.5 kg) double wall bag

### SUITABLE SUBSTRATES

LCB Rapid is designed for use over:

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

**LCB Rapid is a pumpable self-leveling compound designed for dry, interior, fast track installations. LCB Rapid features accelerated drying to facilitate foot traffic as quickly as 90 minutes after placement and floorcovering installations next day. LCB Rapid is suitable for use over existing gypsum, wood, adhesive residue and compromised substrates providing a strong, smooth surface for a wide variety of floor finishes.**

### Features

- › 40% faster to foot traffic, 20% faster to flooring!
- › Open to foot traffic as quickly as 90 minutes after placement
- › Ideal for rapid resurfacing of damaged and distress gypsum substrates
- › High density offers superior resistance to wheel tracking
- › Acceptable for use on UL Fire Rated Assemblies

### Properties

<b>Compressive Strength</b>	>5500 psi (ASTM C109M) (Modified – Air Cure)
<b>Flexural Strength</b>	> 1750 psi (28 days ASTM C78)
<b>Working Time</b>	10-12 minutes
<b>Time to foot traffic</b>	Approx. 90 Minutes @ 70 F
<b>Time to flooring</b>	
Breathable Flooring:	1/2" depth - 16- 20 hrs to flooring, +24 hours per 1"
Non Breathable Flooring:	1/4" depth - 16- 20 hrs to flooring, +24 hrs per 1/2"
<b>Application Conditions</b>	45°F to 85°F
<b>Flammability</b>	Flame Spread 0, Smoke Development 0 Acceptable for use on UL Fire Rated Floor Assemblies*
<b>Coverage</b>	50 lbs - Approx. 23 sq ft @ 1/4"
<b>Yield</b>	50 lbs - 0.46 cu ft
<b>Water per 50lb unit</b>	4.75 US Qts (4,5l) per 50 lb (22,7 kg) bag
<b>Color</b>	Off White/Light Gray
<b>Shelf Life</b>	12 Months when unopened & stored per intructions
<b>SKU</b>	DSFLCBR-50

*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 effect these specifications. Call Technical Services if you have any questions.*

**Leed Credit** LCB 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 & Resources	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, Dependable 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 compatibility with LCB Rapid as an underlayment for the flooring system (any adhesive used for concrete is generally suitable for LCB Rapid). LCB is suitable 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. Only for use on grade concrete when moisture mitigation has been addressed.

Not for use where hydrostatic pressure is present or moisture emissions exceeds the level permitted for finished floor covering. LCB Rapid can tolerate 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 is subject to moisture or the floor covering's moisture permeability does not meet or exceed the moisture content of the slab, Dependable requires moisture mitigation. Use Dependable's 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 50°F (10°C) during the pour and for 72 hours after the pour or until dry. 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).

LCB Rapid features a reduced working time - offering 10-15 minutes of leveling capability. Plan your pour and wet edge accordingly. Consider utilizing LCB when additional working time is desired.

Installation over hydronic radiant heating systems generally require 3/4" cover over the top of the radiant tubes. Some hydronic systems may provide for reduced cover, contact FloorPrep.com Technical Service for low profile radiant systems. It is generally recommended to cover any hydronic tubing with at least 1 - 1.5x the diameter of the tubing. LCB Rapid is compatible with and accepts the direct application of, urethane, moisture cure and other typical floor covering adhesives.

LCB Rapid can be applied in one lift to a maximum depth of 2". All Substrates must be sound, clean, dry and free of contaminants (oil, dirt, laitance etc.) that may interfere with adhesion. 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. LCB Rapid has tremendous bonding properties. It is recommended to isolate all vertical surfaces (walls) with a bond breaker (isolation tape or other) that will come in contact with LCB Rapid application.

---

## Surface Preparation

### Concrete Floors

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 Rapid using a recommended FloorPrep.com Gypsum Repair Solution.

### Wood Substrates

LCB Rapid 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 Polyskim (or equivalent polymer modified gypsum patch). Ensure patch is completely dry before priming.

Double prime wood subfloor with Primer P360 NEAT /Primer MF without puddles using a 3/8" nap roller. When dry, apply LCB Rapid to desired depth as per specifications.

### Adhesive Residue

LCB Rapid 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 P360/Primer MF (NEAT) without puddles, using a 3/8" nap roller.

### Concrete

LCB Rapid is suitable over properly prepared concrete floors. Prime absorbent concrete with diluted Primer P360 /Primer MF (Reference Data Sheets for dilution rates) 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.

### All Substrates

LCB Rapid 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 LCB Rapid.

---

## Mixing

### Mix Ratio:

4.75 quarts of potable water: 50 lb bag of LCB Rapid

### 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 and increased dry time. DO NOT EXCEED 4.75 Qts water per 50 lb bag. 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.

LCB Rapid 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 LCB Rapid 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. Plan your pour and move quickly to place and smooth as LCB Rapid utilizes a reduced working time.

---

## Drying Time

LCB Radip is requires suitable drying conditions, do not wet cure or use curing or sealing compounds. 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. Control these variables to ensure rapid drying with a strong surface.

Do not used forced air to assist in drying LCB Rapid, but do provide for adequate ventilation and circulation of air at a 30° - 45° angle to the floor to push moisture laden air out of the pour area. Do not introduce heavy airflow to the surface of LCB Rapid until after 16 hours of drying. LCB Rapid generally hardens to accept light foot traffic as early as 90 minutes after placement. Avoid construction traffic for 4 – 16 hours (temperature dependent).

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 (on Scale #3) 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 – 20 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 16-20 hours. Add an additional 24 hours of dry time for EACH additional 1/2" inch of material depth.

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

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.

---

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

### Technical Assistance:

Visit our website: [floorprep.com](http://floorprep.com) or call

**1-800-227-3434**

