



Primer 1 is revolutionary high solid acrylic copolymer primer technology. Alkali resistance to pH 14, Primer 1 provides superior bond to substrates when used with FlatFloors LS-4000 and FM-5000 self-levelling underlayment systems (SLUs).

Developed for low odor, trouble-free installation, Primer 1 offers exceptional fast drying coverage with maximum versatility and low-VOCs. Suitable for a wide variety of porous and non-porous substrates, Primer 1 is the only primer required for typical SLU installations.

**Packaging** • 1 Gallon Bucket  
• 5 Gallon Bucket

*Primer 1 is revolutionary acrylic copolymer primer technology.*

### Features

- Fast drying
- Maximum versatility for porous and non-porous substrates
- Exceptional bond performance
- Prolonged resistance to pH 14
- Excellent coverage
- Low odor
- Low-VOC

### LEED

*FlatFloors Primer 1 may contribute to LEED certification of projects as follows:*

- Indoor Environmental Quality EQ 4.2  
Low Emitting Materials  
VOC content <50g/l

### General Guidelines

- For use in dry, interior applications environments only. Not for installation over materials containing asbestos
- For application when substrate and ambient conditions are between 50 - 90F (10-32C). Moisture limits (RH or Moisture Vapor Emissions Rate (MVER)) are determined by the finished flooring and associated adhesive).
- Concrete surface temperatures must be at least 50F (30C) above the dew point and rising prior to application
- Not suitable for use over luan, plastic, fiberglass, metal, particle board, sheet vinyl, and other dimensionally unstable materials.
- Installation must conform to applicable local, state and federal building codes.

### Properties (tested @ 23°C)

Time to dry before SLU application	45-90 mins (temperature and humidity dependent)
Open time for SLU application	Up to 48 hours (must be kept clean)
Temperature for application	10°C to 32°C substrate and ambient
Coverage per gal porous surface	Diluted 3:1 (water:primer) may need to be altered depending on surface
	600 - 1000 sq ft (applied by soft tip broom)
Non-porous surface	Undiluted
	450 - 650 sq ft (applied by roller)
Packaging	5 and 1 USG (18.9 and 3.79 L) containers
SKU	641595240442 for 5 USG
	641595240336 for 1 USG
Shelf Life	24 months from date of mfg, stored properly
	(DO NOT ALLOW TO FREEZE)
Polymer type	Advanced acrylic copolymer
Color	Orange
Flash Point	100°C

#### • Division 3

03 54 00 Cast Underlayment  
03 54 16 Hydraulic Cement Underlayment

#### • Division 9

09 80 00 Floor Finishes

### Storage

Store in cool and dry conditions, out of direct sunlight in sealed containers.

DO NOT ALLOW TO FREEZE.

If material freezes, dispose in accordance with local, state and federal regulations.

### Clean-up & Disposal

Wash hands and tools with water before the dries to a lm to ensure easiest removal. Dispose of waste in accordance with all local, state and federal regulations.

### Suitable Substrates

*(On or above grade, well bonded, clean, dry, sound and stable)*

- Concrete - absorbent and non-absorbent
- Gypsum
- Wood
- VCT
- Ceramic tile
- Cement terrazzo
- Cutback adhesive residue
- Epoxy moisture vapor membranes (free from amine blush)
- Other approved substrates

### References

- ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride
- ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes
- ASTM F-710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring
- ASTM C1708 Standard Test Methods for Self-levelling Mortars Containing Hydraulic Cements

### Preparation and Application *(For professional use only)*

---

#### **SURFACE PREPARATION**

All surfaces must be sound, stable, and clean. Ensure surfaces are free from dust and dirt and any bond breaking materials (silicates, curing compounds, oils). Mechanically remove weak surfaces and any contaminants to sound surface. Always finish cleaning by a final removal of contaminants by vacuum.

#### **APPLICATION PROCEDURES**

Use chemical resistant gloves when handling.

##### **Mixing**

To address any settling, mix Primer 1 briefly with a low speed (300 rpm) mixer and paint paddle to ensure all contents are homogenous (typically 30 seconds). Use full strength or as directed. When specific substrates require the dilution of Primer 1, mix again after diluted to the desired ratio with low speed mixer (typically 1 min). Remix diluted material if it sits more than 24 hours.

##### **Material Application**

Substrates can be tested for absorbency onsite. Place a bottle-capful of clean water on the substrate, if it readily disappears into the substrate, substrate is absorbent.

##### **Absorbent Substrates**

(Typically concrete, gypsum); Dilute primer 3:1 (water:primer). Ensure the substrate stays wet for at least 15 minutes. Substrates that "flash dry" may require additional dilution, or other remedial

actions. If substrate does not stay wet at least 15 minutes, contact FlatFloors Technical Support at [www.FlatFloors.ca](http://www.FlatFloors.ca). Gypsum substrates tend to be very absorbent and may require additional dilution.

Once diluted use a push broom with soft tips and spread Primer 1 with the broom working it back and forth across the surface to ensure penetration into the pores of the substrate. Avoid allowing the material to puddle, rather spread any puddles uniformly across the surface. Some highly porous surfaces may require an additional primer coat (primer effectiveness can be water tested with a capful of water after it has dried).

##### **Non-Absorbent Substrates**

(Wood, VCT, Adhesive Residues, Cement Terrazzo, Moisture Membranes). Apply undiluted Primer 1 with a paint or dual cage roller using a 3/8" nap roller. Spread to ensure the entire surface is covered with a thin, even layer, avoiding puddling. If material puddles, spread uniformly across substrate.

##### **Dry Time**

Ambient conditions (temperature, humidity, air movement) will impact dry time. Primer 1 typically dries in 45 minutes to 90 minutes. Roll out to a uniform layer with no ridges or primer build. Areas must be re-primed if more than 48 hours passes since Primer 1 application, or in the case of contamination by dust or foreign material.

### Precautions

---

Read and follow all precautions and warnings indicated on the product label and on the product Material Safety Data Sheet (MSDS) available at [www.FlatFloors.ca](http://www.FlatFloors.ca)

## For technical support contact 1.888.800.4630



# PRIMER 1

## Alkali Resistant Primer for Underlayments

### Limited Warranty

---

FlatFloors Inc. 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 FlatFloors Inc. will correct any such failure by either replacing or repairing any defective goods, at FlatFloors Inc.'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: [flatfloors.ca](http://flatfloors.ca)