



MOISTURE

CUTDOWN® II



DESCRIPTION

CUTDOWN® II is a two part product featuring complex cross-linked latex polymers that reduces moisture vapor transmission and odor through concrete slabs. It can reduce up to 90% Relative Humidity (15 lb. MVER) to an acceptable level for the installation of floor covering systems OR to isolate cut-back and other adhesive residue, to allow safe installation of floor covering without fear of discoloration or bleed through.

APPLICATIONS

- Used to reduce vapor and odor transmission OR to isolate cutback and other adhesive residues on suspended, on-grade and below-grade concrete slabs
- May be used in industrial facilities, office buildings, retail, institutional or residential buildings

(Not warranted for use on residential wood floors)

FEATURES AND BENEFITS

- Protects to 90% RH (ASTM F2170)
- Reduces up to 15 lb. MVER to 3 lb. (ASTM F1869)
- Zero VOC – Contributes to LEED (EQ 4.2)
- Easy to install
- Economical coverage
- More resistant to alkalinity – protects to pH of 12
- Infiltration barrier to cutback adhesive residue over concrete
- Compatible, in direct bond, with most floor covering systems

PACKAGING

2 PARTS

Part A: 1.8 gallons – Part B: 2.2 gallons

Shelf Life: 1 year. **Do Not Freeze** - Protect from heat and direct sun. Store at 45-75° F. Shelf life is significantly shorter when stored over 90°F (32°C)

LEED CREDIT

AREA	CREDIT	CATEGORY	HOW
Indoor Environmental Quality	EQ 4.2	Low Emitting Materials	Zero VOC

PHYSICAL CHARACTERISTICS

Color, when wet:

Beige / Tan

Color, when dry:

Orange / Brown

Color when dry with increased vapor transmission:

Dark brown

Shelf Life - once mixed:

2-4 weeks, but must be re-mixed

Re-Coat time:

2 to 24 hours

Cover time:

Minimum 24-48 hours

Bond strength:

Direct pull test: 300 psi

Coverage:

	8 lb. MVER (85% RH)	15 lb. MVER(90% RH)
First Coat:	200 sq. ft./gal	160 sq. ft./gal
Second Coat:	350 sq. ft./gal	350 sq. ft./gal
Third Coat:		350 sq. ft./gal

A 4 gallon unit used for 8 lbs. MVER – 2 coats
– will cover 540 square feet

A 4 gallon unit used for 15 lbs. MVER – 3 coats
– will cover 360 square feet

12 dry mills minimum required over 8 lbs. MVER.

APPLICATION CONDITIONS

The area should be conditioned at 70°F or more with a maximum humidity of 60% or less for 48 hours prior to application. Concrete slab temperature should be a minimum of 55°F. Once applied, the area must be kept at 70°F and 60% RH for 72 hours. If optimum applications conditions are not maintained, CUTDOWN® II may require longer drying/set-up time (several days). Freezing temperatures or excessively high or low humidity may prevent CUTDOWN® II from performing properly.

PREPARATION AND APPLICATION

EMISSION TESTING

To maintain warranty all areas to be treated should be tested in accordance with ASTM F-2170- 11 (Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes). Anhydrous Calcium Chloride tests (ASTM F-1869-11) may be used but is not warranted only where HVAC is on 24x7 at least one week before and during tests. Relative Humidity tests are always preferable and required on all newly placed concrete. Slab on grade and below grade foundations must be tested in accordance to ASTM F2170 (Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes). ASTM F 1869 is not recommended on below grade or slab on grade foundations due to inaccuracy of testing based from fluctuating conditions. All areas must also be tested for alkalinity. Map the location of all tests and re- sults. Record room temperature and humidity conditions. For concrete slabs with hydrostatic pressure (liquid water transmission) or relative humidity that ever exceed 90% RH or emission levels that ever exceed 15 lbs. MVER, use DEPENDABLE VAPORSEAL products. Moisture potential where there is no effective barrier under slab can vary markedly over time and testing only measures current conditions. Where an under slab effective barrier is not present, use of VAPORSEAL products is strongly recommended. Do not use on new concrete (less than 1 year) without RH (ASTM F2170) tests and consulting Technical Services. Calcium Chloride Testing is never acceptable unless HVAC is on 24x7.

SURFACE PREPARATION

Extremely Dry Conditions

Applications in very dry environments, over a very dry slab, will lead to pre-mature drying. In this case the product does not develop a proper bond or film. When these conditions exist, it is recommended to pre-dampen the concrete with water. Soak the concrete with water by mop, broom or other apparatus. Be sure to maintain a damp (with no standing water) slab while installing Cutdown II. This will allow the product to dry at its normal rate.

Standard Concrete Surfaces

When using Cutdown II as a moisture retarder, penetration of the slab surface is necessary for maximum bond and effectiveness. Cutdown II should have intimate contact with absorptive concrete slab. Concrete repairs underneath Cutdown II must be well bonded hydraulic cement materials, not contain latexes affected by water and be porous enough to absorb water readily. All others must be removed and all leveling done above Cutdown II. All surfaces to be treated must be sound, solid, clean, absorptive, and dry. Surface shall be free of sealers, dirt, dust, paint, adhesive residues or other bond breakers or contaminants or bond breakers of any kind that might interfere with the product's penetration and bond. Soft, dusty or weak layers of concrete must be removed. One way to test surface is by pressing a piece of duct tape onto the concrete. Remove and inspect the back. The surface may be considered clean if the tape is clean. However only submitting slab cores for lab testing can absolutely determine if not sealers, bond breakers or contaminants are present. All such materials must be removed prior to installing Cutdown II. Cleaning usually requires damp mopping. Make sure there is no standing water remaining on surface. Open, absorptive concrete permits proper bond and long term performance for Cutdown II. To test for absorptive surface and absence of sealers, place dime-size drops of water on several places on sub-floor. Water should penetrate concrete within about 30 seconds. If water beads, surface is not ready to receive Cutdown II. Observing uniform water absorption rate if slab is pre-dampened assists in assuring good conditions. Polished, power trowelled or very smooth slabs shall be ground, scarified, or bead blasted to allow Cutdown II to soak into pores and bond to slab. Installation on a smooth slab without profile requires test application and bond testing. Alkalinity in concrete greater than pH of 10.0 should be reduced with diluted vinegar wash prior to installation. Cutdown II may leave an "orange peel" finish that may require leveling with some floors.

New Concrete

Slabs or other concrete placements less than one year old may not be ready for Cutdown II. Only relative humidity testing (ASTM F2170) is

acceptable and Technical Services should be contacted. Water absorption test a quick test of whether Cutdown II may be applied is to place dime size drops of water on floor. If they do not fully absorb within 80 seconds, Cutdown II will not penetrate the concrete.

Joints in Slab

Expansion (through slab) joints should be left intact. Cutdown II is not warranted against structural movement or moisture at expansion or "cold" joints. Joint walls may be painted and joint filled with a material designed to allow movement to minimize moisture transmission. Dimensionally stable, or non-moving, saw cut control joints, voids and cracks shall be filled by brushing or pouring Cutdown II into the thoroughly cleaned joint . Finish leveling must be done over the area when Cutdown II has dried with an appropriate patch such as SKIMCRETE XL, SKIMCOAT or other DEPENDABLE leveling materials.

Adhesive Residues

Cutdown II may be used to isolate well bonded (non soluble) adhesive residues, including Cutback. Cutdown II does not bond as strongly to adhesive residue as to adsorptive concrete, but forms an effective membrane. The dark color of cutback adhesive residues will show through even 2 coats of Cutdown II, but is not an indication of bleeding through the material. Cutback residue may be covered by Cutdown II where also treating moisture if it is then covered by at least 1/4 inch of Dependable Self Leveler. Since it can not penetrate into the concrete, Cutdown II must not be used for moisture control when other latex adhesive residues are present. Existing adhesives should be well bonded to substrate. Aggressively scrape surface to remove all possible material and high spots. NOTE: Do not scrape adhesives containing asbestos unless following special asbestos removal procedures. Water soluble adhesives shall be removed. Leveling or patching normally must be completed following Cutdown II application. Use the appropriate DEPENDABLE patching or self-leveling product to maintain full warranty.

Self Leveling

When installing self leveling products over Cutdown II, the method and extent of preparation should be consistent with recommendations of the self-leveling product as well. Use of spiked sandals during installation shall not be used over Cutdown II.

MIXING

TWO PART MIX AT TIME OF APPLICATION

Cutdown II is packaged in 2 Parts: Part A and B, separate pails. You will need to supply a large enough pail (5-7 gal pail) and use it as your Mixing Pail. Pour Part A into mixing pail first, then add in Part B. Use a brush to scrape the material from each pail. Mix mechanically with a mix blade designed to mix low viscosity liquids, such as a Jiffy mixer. Mix thoroughly, at about 300 rpm, for 3 minutes until streak free. Avoid entraining air or mix until observable bubbling does not occur.

APPLICATION COVERAGE/MILS REQUIRED FOR WARRANTY

A mil is a thousandth of an inch. Mills may be measured with a wet film gauge (available through Dependable distribution or local professional paint stores). Approximate mils can be achieved by using the required coverage rate. To ensure proper coverage, mark out the area of the floor that a gallon should cover.

APPLICATION Continued

MVER LBS.	RH%	Wet Mils Applied	Dry Mill Cured	# Coats	Sq. Ft/ 4 gal.
8	85	12	8	2	540
15	90	18	12	3	360

Mark with tape or otherwise measure out the area of floor intended to be covered by the container or containers mixed. Film gauges are also useful to check the thickness of the wet material. Dry mil thickness must be equal to lbs. MVER. to be abated up to 12 mils for warranty. Assure that sufficient material is used to achieve minimum mils of application required.

TWO COAT APPLICATION

(Less than 85% Relative Humidity or 8 lb. MVER)

With a coverage rate of 200 – 350 square feet per gallon, wet film thickness should be about 5 – 8 mils per application, which may vary with surface porosity. Cutdown II is normally applied with a 3/8" nap roller. Nap size will depend upon the texture and porosity of the surface. Either dip the roller into the pail or a paint pan or pour one width strip directly onto surface. Roll with even and consistent strokes, keeping all application back and forth in the same direction, to ensure even application. Allow the first coat to dry 2 – 3 hours before beginning the second application. Apply the second coat in the opposite direction to the first or on a diagonal. Final dry film thickness should be 4 mils or more. Allow 24-48 hours prior to application of floor covering.

THREE COAT APPLICATION

(Where may ever exceed 85% RH or 8 lb. MVER)

Whenever Cutdown II is used to mitigate moisture, the coverage and resulting depth of the coating is critical. In order to assure enough mils of membrane (12 dry mils), the first coat should be a double wet applied coat totally at least 12 wet mils and the area intended to be covered by one gallon (160 square feet on the first coat) should be marked off. In the measured area, using a 3/8 or 1/2" nap roller, roll the product liberally onto the floor from a pan or material poured on the floor across one width. Let material penetrate a few minutes then roll a second wet application of Cutdown II over the initial wet coat. Depending upon the porosity of the substrate, the material may be dry to the touch when re-applying.

If applying by pouring on to the substrate, lightly pre-dampen the floor with water. Use a mop or broom to spread the water on the floor. Make sure there is no standing water – that the surface does not glisten – prior to installing Cutdown II.

Allow to dry 2 hours before applying second or third coats. Apply the second coat across the grain or perpendicular to the first coat. Apply third coat in the same direction as the first coat. Allow a minimum of 24 up to 48 hours cure time without traffic on the floor before patching or covering, depending on temperature and humidity. Full cure is at 48 hours.

FLOORING APPLICATION

Most adhesives (including latex, urethane, epoxy and thin set mortars) and leveling compounds may be applied directly to the surface. For coatings and other covering materials, consult Technical Services. Testing the adhesive for acceptable bond is always advisable. Exercise care to protect cleanliness of Cutdown II and avoid traffic during curing until covered.

CLEAN-UP

Use soap and water to clean tools or spatter while Cutdown II is wet. Once the material dries and hardens, abrasive removal is required.

LIMITATIONS / PRECAUTIONS

- **SHELF LIFE** – Cutdown II should be used within 12 months of manufacture and should be stored in cool, shaded areas. Protect from heat, direct sun and freezing. Temperatures above 75°F will significantly shorten shelf life. Do not store above 90° or allow to freeze.
- Not for use over new concrete or where epoxy floor coatings are applied directly over Cutdown II membrane. Consider DEPENDABLE VAPORSEAL products.
- Application area should be conditioned at 70°F with maximum humidity of 60% for 48 hrs. prior to and 72 hrs. after application. Concrete slab temperature must be minimum of 55°F. Do not apply over existing coatings, sealers or floor coverings.
- Extreme care should be taken with any operations on the Cutdown II membrane so as not to damage or debond the membrane before covering. Protect from contamination and traffic.
- Cover Cutdown II within 48-72 hours.
- Do not use over soft, heavy cutback or other spongy surfaces, as film will crack and isolation will fail.
- Do not nail into or penetrate Cutdown II membrane.
- Not recommended where high alkalinity exists. If pH exceeds 12, take measures to reduce it.
- Not an adhesive, wear layer or topping.
- Not warranted to reduce emission levels greater than 15 lbs. MVER or relative humidity in slab exceeding 90% at any time during service life (5 years). If subsequent moisture levels may be higher or hydrostatic water (liquid) may occur, use VAPORSEAL products, not Cutdown III.
- Not designed to have regular contact with liquid water.
- Not warranted for use on residential wood floors.

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.

It is always recommended that other branded products are tested with Dependable's products prior to use.

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.



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