



Protect flooring installations from the ground up.

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MOISTUREBLOC[®] PATCH

ONE COMPONENT, CEMENT BASED SYSTEM FOR FAST REPAIRS TO CONCRETE

DESCRIPTION

MOISTUREBLOC PATCH is a self curing advanced polymer modified high strength leveling compound for patching and restoration of interior MoistureBloc treated concrete floor surfaces.

It provides excellent bonding, flexural and tensile strengths as well as excellent water resistance due to its low permeability.

MoistureBloc Patch can be used to repair defects such as spalls, rock pockets, honeycombs, holes, cavities or cracks in concrete with a depth greater than 1/2".

BENEFITS

- Improved yield, lower in-place cost
- Quick return to service
- Versatile, does not require placement in lifts
- Acrylic polymer modified
- Portland cement formulation
- High compressive, flexural, tensile and bond strength
- Compatible with most concrete
- Easy to place, consolidate and finish

MEETING YOUR INSTALLATION NEEDS

- MoistureBloc products are specially formulated to work together to meet the installation needs of almost any flooring project.

SUBSTRATE PRIMING

MoistureBloc Surface Bond may be applied up to 72 hours before underlayment application over MoistureBloc material used. One gallon of bonding agent mixed with one gallon of clean water will cover approximately 350-400 sq. ft. of floor area. Extremely porous concrete may require two coats of primer mixture or one coat of undiluted primer.

APPLICATION

SURFACE PREPARATION: Use **MoistureBloc Stripper** to remove all curing compounds, bond breakers, grease, oil and laitance down to sound, clean concrete. All concrete bonding surfaces must be clean and free of contamination and roughened wherever possible. Clean floor with **MoistureBloc Floor Cleaner** in areas where moderate to heavy traffic is anticipated, the recommended minimum patch depth is 2". Patch edges should be vertical or undercut. Avoid feather edging. In areas not subject to heavy traffic or service conditions the minimum recommended patch depth is 1/2". Concrete bonding surfaces should be moistened and preferably kept damp for at least 4 hours prior to patch placement. Remove excess water and allow to dry slightly, until water sheen has disappeared, before placing MoistureBloc Patch. [1/2" = 12mm; 2" = 50mm]

MIXING: Use up to 4 quarts of potable mixing water per 50# bag of MoistureBloc Patch. Place measured mixing water in mixer and slowly add MoistureBloc Patch, continue mixing for 1-3 minutes or until mixture is smooth and free of lumps. If patch area is thicker than 2", add 25% by weight of clean, uniformly graded, 3/8" maximum size pea gravel that has been dampened and allowed to drain.

The pea gravel should be added only after the MoistureBloc Patch and water are thoroughly mixed. Continue mixing until the gravel blends in evenly. Small batches can be mixed by hand with a margin trowel. Larger batches will require a power mixer. Avoid mixing more than can be placed within the available working time. When temperature is over 85 F (30°C), use cold mixing water and store tools and materials in the shade prior to use.

NOTE: Temperature will affect working time.

PLACEMENT: After mixing, MoistureBloc Patch should be placed without delay. Use a trowel or shovel to place MoistureBloc Patch and quickly consolidate using a tamper. Do not apply water to finish patch surface. The preferred finishing method is to fill the cavity slightly higher than the surrounding concrete, wait until initial set starts and then shave and texture the patch surface to match the surrounding concrete using the sharp edge of the trowel. MoistureBloc Patch can be placed in layers. Allow one day damp curing between layers and rough finish each layer, except the final, to facilitate bonding.

NOTE: All construction or other joints must be brought up/reflected through patch material. Stress relief should be provided for patches over large areas. A test patch is recommended prior to using product.

LIMITATIONS/SPECIAL NOTES

- Do not use MoistureBloc Patch to repair asphalt or latex modified concrete.
- Do not add admixtures of any type to MoistureBloc Patch.
- Do not use at a flowable or self-leveling consistency.
- Do not use if temperature is below 40° F (4° C).
- Do not use to fill working joint of any type.
- Never retemper (add water) to restore workability or to finish surface.
- For applications less than 1/2" in thickness, use Certi-Vex Patch FP instead.
- Elevated material temperatures accelerate setting and reduces working time.
- Proper application of Vexcon material is the responsibility of the installer or user. Telephone consultation and/or field visits by Vexcon personnel are for the sole purpose of making technical recommendations only, and not for providing quality control or supervision on location.

CURING

MoistureBloc Patch used indoors typically does not require curing; sprinkle with water when it appears dry.

TECHNICAL DATA

LABORATORY TEST REPORT

PROPERTY/TEST METHOD

SET TIME (GILMORE)

INITIAL:	25 MINUTES
FINAL:	30 MINUTES
WET DENSITY:	121 LBS/cu. ft.

COMPRESSIVE STRENGTH (ASTM C 109)

1 DAY	2,675 psi
7 DAYS	6,810 psi
28 DAYS	7,025 psi

SHEAR BOND (ASTM C 882)

7 DAY	1140 psi
28 DAYS	1800 psi

FLEXURAL STRENGTH (ASTM C 348)

1 DAY	575 psi
7 DAY	1,260 psi

EXPANSION/SHRINKAGE (ASTM C 157)

28 DAY	-0.045%
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TENSILE STRENGTH (ASTM C 190)

1 DAY	270 psi
7 DAYS	465 psi
28 DAYS	520 psi

FREEZE/THAW RESISTANCE (ASTM C 666)

50 cycles	excellent
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GARDNER IMPACT

28 DAYS	greater than 158 inch lbs
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ENTRAINED AIR CONTENT (ASTM C 231)

Wet	5.3%
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WATER PENETRATION (ASTM E 514)

3 DAY SOAK	½ inch
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pH

WET	12
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These are conservative data based on 50 # bags and individual applications will most likely yield higher strength.

PACKAGING

MoistureBloc Patch is available in 50 pound bags. Contact Vexcon directly to discuss your customized packaging requirements.

YIELD

When used in accordance to directions, MoistureBloc Patch yields .42/cu.ft per bag when used with four quarts of mixing water per 50 pounds. The product may be extended with 25% pea gravel to .50 cu.ft. /50# follow directions.

SHELF LIFE

If properly stored in its original sealed bag, one year from date of manufacture. Rotate your stock. Store in shaded area.

HEALTH AND SAFETY

- Use only with adequate ventilation.
- Use of gloves, goggles and other protective clothing is advised when using this product.
- If swallowed, do not induce vomiting.
- Use of respirators is advised when using in confined areas.

Vexcon MSDS #CP150 is an integral part of the safety and application of our product. A short synopsis is provided in this product data sheet. Before using this Vexcon product it is advisable to obtain a copy of the MSDS #CP150 from your distributor or by contacting Vexcon Chemicals.

THIS PRODUCT INCLUDES

Material or Component	CAS No.	Hazardous Data	UN#
Silica, Crystalline Quartz	7631869	TLV-TWA 0.1 mg/m ³ Respirable Dust	
Silicon Dioxide	14808-60-7		
Portland Cement	65997-15-1		
Common Name: Cementitious Grouting Material			
D.O.T. Shipping Name: In containers less than 119 gals: MOISTUREBLOC PATCH (Non-Regulated)			

CONTACT US @

Additional product information, technical assistance and customer services are available by contacting Vexcon Chemicals directly or our distributors.

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WARRANTY

Vexcon warrants that the goods supplied hereunder shall be of its standard quality and shall conform in all material respects to the sample which has been made available for testing by buyer prior to sale. As the EXCLUSIVE REMEDY for any breach of this Limited Warranty, Vexcon shall replace nonconforming goods or refund the purchase price. Since methods of use and application are beyond Vexcon's control, this Limited Warranty IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THOSE CONCERNING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS LIMITED WARRANTY IS ALSO IN LIEU OF ANY OTHER POSSIBLE LIABILITIES OF VEXCON, WHETHER ALLEGED TO ARISE BY AGREEMENT OR BY OPERATION OF LAW, RESPECTING THE SALE, APPLICATION, USE OR FUNCTION OF VEXCON'S PRODUCTS, INCLUDING BUT NOT LIMITED TO CLAIMS OR NEGLIGENCE, GROSS NEGLIGENCE, STRICT LIABILITY OR ANY OTHER TORT. IN NO EVENT SHALL VEXCON BE LIABLE FOR PERSONAL INJURY OR PROPERTY DAMAGE, REAL OR PERSONAL, ATTRIBUTED TO ITS PRODUCTS, NOR FOR ANY EXCAVATION, REMOVAL, REAPPLICATION, DOWN TIMES, CLEANUP, LOSS OF USE, LOSS OF OPPORTUNITY, LOSS OF MARKET VALUE, LOSS OF RENTAL VALUE OR FOR ANY LOSS OF PROFITS OR OTHER SPECIAL, INCIDENTAL, RESULTING, CONSEQUENTIAL OR EXEMPLARY DAMAGES. No person is authorized by Vexcon to assume for it any other liability of any kind in connection with the sale or use of products manufactured and sold by it, and there are no oral agreements or warranties collateral to or affecting any sale or use. All of the foregoing arises under the substantive law of Pennsylvania without regard to principles of conflicts of laws.