

APACTM

V-BlockTM

Primer, Sealer and Moisture-Reduction Treatment



DESCRIPTION

APAC V-Block is a polymer-based, primer-sealer and subfloor moisture treatment product designed to seal fresh (new) concrete subfloors that show a diminishing moisture emission rate of up to 8 lbs. per 1000 square feet or less per 24 hours, or less than 85% relative humidity (RH). APAC V-Block will allow for fast-track flooring installations where the only other alternative is to let the concrete subfloor dry to meet flooring manufacturer's recommendations. It is easily applied by a 1/4" nap roller and forms a tough, moisture-resistant film over the substrate surface. APAC V-Block also seals porous and dusty surfaces, which improves adhesive spread rates, improves adhesion and long-term bond aging.

FEATURES & BENEFITS

- Primes and seals surfaces
- Moisture- and alkali-resistant
- Reduces subfloor moisture emission over new concrete

USES

Designed for use as a primer-sealer over approved substrates (see below) as well as for a treatment to reduce subfloor moisture emissions on fresh/new concrete before the installation of floor covering.

For use under most types of floor coverings including: carpet, carpet tile, vinyl composition tile (VCT), felt-backed sheet vinyl, homogeneous and heterogeneous PVC sheet, solid vinyl tile, vinyl plank, linoleum flooring, cork flooring, parquet wood flooring, and glue-down engineered wood flooring. APAC V-Block is compatible with all APAC water-based adhesives.

Consult APAC's Technical Services Department for floor coverings not listed and adhesives that are not water-based.

AREAS OF USE

- Residential (rental apartments, condominiums and homes)
- Commercial (office buildings, shopping malls, grocery stores, department stores and cafeterias)
- Institutional (hospitals, schools, universities, libraries and government buildings)

RECOMMENDED SUBSTRATES

- As a primer/sealer – Exterior-grade plywood, Group 1, CC type; other approved wood underlayments (per the flooring manufacturer's recommendations); concrete and properly prepared cement terrazzo; cement-based self-leveling underlayments and patching compounds; gypsum underlayments that meet the requirements for compressive strength according to ASTM F2419; other approved gypsum-based self-leveling products and patching compounds; and a single layer of properly prepared, fully bonded VCT

- As a moisture treatment– new concrete (less than one year old), above and on grade

Note: Consult Technical Services for installation recommendations regarding substrates and conditions not listed.

LIMITATIONS

Do not install over any substrates containing asbestos. For interior installations only. Do not apply over any adhesive residues including cutback. For concrete slabs less than 1 year old: Do not install when the moisture vapor emission rate (MVER) exceeds 8 lbs. per 1,000 sq. ft. per 24 hours when using the anhydrous calcium chloride test (ASTM F1869), when the RH of the concrete slab exceeds 85% (ASTM F2170), or when moisture conditions are not dissipating. For concrete slabs more than 1 year old: Do not install when the MVER exceeds 5 lbs. per 1,000 sq. ft. per 24 hours when using the anhydrous calcium chloride test (ASTM F1869), or when the RH of the concrete slab exceeds 80% (ASTM F2170). Use only when the substrate temperature is between 50°F and 90°F. This product is not recommended for use if the pH is greater than 9. APAC V-Block is not recommended for concrete subfloors where hydrostatic pressure is seen or expected. In areas where there has been a history of flooring failures due to sporadic elevated moisture conditions, consult with Technical Services before proceeding with the installation of APAC V-Block. APAC V-Block is not an equal replacement for a high-performance epoxy-based moisture-reduction barrier. APAC does not warrant against concrete slab movement or against moisture coming up through cracks and joints.

APAC V-Block is not recommended as a primer for any self-leveling underlayment.

In installations of resilient flooring and carpet with nonporous backings, do not use wet-lay adhesives or wet-lay installation methods. Instead, use only tacky installation methods.

APAC V-Block is not a waterproofing membrane and is not designed to protect flooring installations from water or excess moisture coming from above (such as from floods, leaks and improper cleaning/maintenance procedures).

Follow the flooring manufacturer's guidelines for climate control settings (temperature and humidity). These conditions must be maintained by the building owner in order to ensure the overall performance and long-term success of the installation.

All floor-covering products must be installed in strict accordance to the manufacturer's written installation instructions as well as corresponding industry standards.

SURFACE PREPARATION

All substrates must be structurally sound, dry, solid and stable. Substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents,

concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion. All surfaces must be level, even, flat and smooth. Refer to APAC's Surface Preparation Guidelines at www.apacadhesives.com.

Note: If concrete contains deep voids or is highly uneven or unlevel, preliminary leveling and/or patching before the application of APAC V-Block may be required. Contact Technical Services for product recommendations.

MIXING

Note: Choose all appropriate safety equipment before use. Refer to Material Safety Data Sheet (MSDS) for more information.

- Ready to use; no mixing is necessary. (Settling may occur. If needed, mix until the product is smooth and consistent.)

BOND TEST

In the center of the installation area, sweep and clean a 24" x 24" area. Apply three 2-inch strips of masking tape to the floor, overlapping them by 1 inch. Use a roller to apply a coat of APAC V-Block to the floor, running this application up onto the tape and allowing the area to dry to the touch. Apply a second coat and allow the area to dry for 24 hours. After 24 hours, carefully peel tape from the floor to the point where the tape, floor and APAC V-Block meet. Use a scraper to test whether APAC V-Block can be easily removed. Further test the bond by applying a 12-inch strip of duct tape to the area, snatching the tape from the floor and seeing if the APAC V-Block comes up with the tape. If APAC V-Block cannot be scraped or peeled from the floor, there should not be bonding issues. If APAC V-Block can be easily removed, the concrete must be mechanically abraded (sandblasted or shotblasted) in order to eliminate the sealer, curing agent and/or other bond breakers.

INSTALLATION

Read all installation instructions thoroughly before installation.

- Apply with a 1/4" nap roller, rolling in the same direction with even, consistent strokes.
- Do not pour directly onto substrate surface.
- Allow to dry for 2 to 3 hours.
- For subfloor moisture treatment, apply a second coat, rolling perpendicular to the first direction. Film thickness should be 6 mils or more after final application dries. Do not puddle APAC V-Block.
- Clean tools with water while the product is still fresh/wet. Use mineral spirits once dried.
- Allow APAC V-Block to dry for 24 hours before patching.
- Protect area from traffic and other trades until the final installation of flooring.

Note: Always install APAC V-Block first, and then apply patching compounds. Drying times will vary based on porosity and jobsite conditions. Adhesives and patching products will often require extended drying times when applied over APAC V-Block.

TECHNICAL DATA

Polymer type	Styrene acrylic
Percent solids	34% to 38%
VOCs (Rule #1168 California's SCAQMD)	< 5 g/L
Color	White; dries clear
Shelf life	2 years
Flash point (Tag)	> 200°F
Storage conditions	50°F to 90°F

Note: Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

PACKAGING

Product Code	Size
94264221	4 U.S. gals. (15,1 L)

TYPICAL TROWELS AND APPROXIMATE COVERAGES*

For Subfloor Moisture Treatment, with a 1/4" Nap Roller

- For two coats on smooth concrete: 125 to 150 sq. ft. per U.S. gal.
- For two coats on rough concrete: 100 to 125 sq. ft. per U.S. gal.

For Primer-Sealer Applications, with a 1/4" Nap Roller

- On smooth concrete: 300 to 400 sq. ft. per U.S. gal.
- On rough concrete: 250 to 350 sq. ft. per U.S. gal.

* Coverages shown are for estimating purposes only. Actual jobsite coverage may vary according by application method, substrate, substrate conditions and actual thickness applied.

INDUSTRY STANDARDS AND APPROVALS

LEED Points Contribution	LEED Points
MR Credit 5, Regional Materials ^{††}	Up to 2 points
IEQ Credit 4.2, Low-Emitting Materials – Paints & Coatings	1 point

^{††} Using this product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

MAPEI® Corporation

1144 East Newport Center Drive
Deerfield Beach, Florida 33442
Phone: 1-800-747-APAC
Fax: 706-277-4157

Technical Services

1-800-637-7753
www.apacadhesives.com
apac@apacadhesives.com

Edition Date: January 1, 2011

PR6104 AVBKD_L10Ev
© 2011 MAPEI Corporation.
All Rights Reserved. Printed in the USA.

Associations That We Support:

