

# TECH DATA

Technical Information Sheet

## ECOPROTEK™ Total Antimicrobial Protection

### TECHNICAL DATA:

- **FREEZE-THAW STABLE:** Protect from freezing. Store product indoors at temperatures between 40°F and 100°F.
- **SHELF LIFE:** Minimum one year
- **TYPICAL COVERAGE:** 300 to 400 square feet per gallon; minimum 4 mils of wet film thickness per application; coverage varies with surface porosity
- **DRY TIME:** See applications
- **COLOR:** Light umber
- **CONSISTENCY-VISCOSITY:** Similar to a heavy paint made for roller application.
- **NONTOXIC / NONFLAMMABLE.** Keep container closed when not in use. If taken internally call physician and treat for ingestion of synthetic latex.
- **PACKAGING:** 4-gal. & 1-gal. plastic pails

**CLEANUP:** On fresh material use soap and water. Dry material must be scraped or abraded.

**LIMITATIONS:** Condition area to 70°F with a max. humidity of 60% RH for 48 hours prior to and after application. Concrete slab temperature should be min. of 55°F. Do not apply over existing coatings or floor coverings. Do not nail through ENCapSeal. Not recommended for use if alkalinity is over 9; reduce alkalinity level. Cannot be used as a wear layer or topping. Cover in 48 hours. Do not use over soft, heavy cutback or other spongy surfaces that may crack and cause failure of isolation or encapsulation.

**CAUTION:** May cause mild skin and eye irritation. Avoid contact with skin and eyes. Thoroughly wash exposed area with soap and water. Eyes: flush with large amounts of water, lifting upper and lower lids occasionally; if irritation persist see a physician. Ingestion: Do not induce vomiting. Call a physician immediately for treatment. Do not take internally. [Refer to Material Safety Data Sheet (MSDS) for further information.] **KEEP OUT OF REACH OF CHILDREN • KEEP CONTAINER CLOSED WHEN NOT IN USE**

# APAC

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# ENCapSeal™

PRIMER • SEALER • ENCAPSULATOR  
FEATURING ECOPROTEK™ (Total Antimicrobial Protection)

### DESCRIPTION

ENCapSeal™ is a high solid, fast drying, polymer based compound formulated to seal floors against moisture vapor emissions, and also serves to encapsulate old adhesive residue in direct glue down floor covering applications. ENCapSeal when applied to a properly prepared subfloor will reduce moisture vapor emissions of up to eight pounds per 1,000 square feet per 24 hours to three pounds or less. ENCapSeal will also isolate old adhesive residue, including cutback residue, and prevent migration, and subsequent staining from these. ENCapSeal contains ECOPROTEK™ our exclusive antimicrobial package that imparts protection against mildew and fungus attack of both the wet and dry sealer film. The protective layer formed by application of this product also serves to reduce odor transmission associated with damp slabs, and helps eliminate odors associated with urine in wood and concrete subfloors.

ENCapSeal will increase spread rates for adhesives, will greatly enhance adhesion of floor covering glues, and increase long term bond aging substantially. In short, ENCapSeal is a problem stopping, problem solving, floor prep product, for those installations where you need truly unique performance characteristics. ENCapSeal is solvent free, very low odor and user friendly.

### FEATURES & BENEFITS

- Encapsulates Old Adhesive Residue Including Cutback Residue
- Seals Surfaces & Reduces Moisture Emission
- Moisture & Alkali Resistant
- Contains ECOPROTEK™ (Total Antimicrobial Protection)
- Reduces Odor Transmission Associated with Damp Slabs.
- Improves Long-Term Bond Aging

### USE TO INSTALL

- For use under most types of floor coverings including, but not limited to wood, carpet, tile, ceramic, cork and resilient. ENCapSeal is compatible with all APAC adhesives.

### RECOMMENDED SUBSTRATES

- Concrete, plywood, hardboard, particle board of underlayment quality only, terrazzo, VCT, birch and Luan underlayment, self leveling compound and gypcrete. (All concrete slabs must be thoroughly cured and free of curing agents and excessive alkali.)

### MOISTURE TEST

- Do not conduct anhydrous calcium chloride

and alkalinity test until substrates have been conditioned to appropriate temperature or the test results could vary. Test floor for vapor emissions in accordance with anhydrous calcium chloride test. Vapor emissions should not exceed the industry standard of < 3 pounds per 1,000 square feet in a 24 hour period. ENCapSeal is designed to reduce moisture vapor emissions of up to eight pounds per 1,000 square feet per 24 hour period. When testing is completed reading above three pounds and less than eight pounds can be corrected with this product.

### DIRECTIONS

#### Surface Preparation:

For proper results, the room and sealer should be a minimum of 70°F and the humidity should be below 60% for 48 hours before and after application. Area to be sealed must be clean relatively dry, sound, and free from wax, dust, dirt, oil, curing and sealing compounds, and any other foreign matter that would inhibit bonding of ENCapSeal to the surface. Some concrete curing and sealing compounds can interfere with ENCapSeal penetrating and mechanically bonding to the substrate surface. Testing should be done to determine if concrete floors are porous, and if there are any sealers, or curing agents present that would cause lack of adhesion. Test for porosity by putting small puddles of water one-inch across at various points over the surface of the floor. If the water substantially soaks in within 30 minutes the floor is porous. If after testing it is determined that the substrate is nonporous, it will be necessary to remove the sealers or curing compounds that are causing the problem, by mechanically abrading, sanding or shot blasting the surface. Achieving a good bond is imperative to a successful application.

Some very smooth concrete that has been steel troweled by mechanical means may show to be non-porous, even if it is unsealed. These surfaces should be acid etched with a 1% muriatic acid solution to allow ENCapSeal to achieve a better bond to the concrete surface. Be sure and double rinse after acid etching, and allow substrate surface to dry before applying ENCapSeal.

Surface preparation should be done to industry standards, and any patching or leveling should be done with cementitious based patching compounds that are polymer modified, and recommended for these applications. Expansion joints should be left intact. APAC will not warrant against film breakage due to movement of the expansion joints.

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**Wood Floors:** Wood floors must be sound and thoroughly secured. Patching should be with a quality cementitious base polymer fortifier patching compound. Old adhesives must be thoroughly scraped away leaving only a residue. Soft adhesive residue of any kind will not support the ENCapSeal film, and may cause job failure.

**Warning!** Do not sand, abrade or demolish existing resilient tile and sheet flooring, backing or lining felt. These products may contain asbestos fibers that are not readily identifiable. Avoid creating dust. Inhalation of asbestos dust may cause asbestosis or other serious bodily harm. If old floors must be removed, consult and follow the recommended work practices of the resilient flooring manufacturers.

#### Application:

A single roller coat application of ENCapSeal™ serves as an excellent primer for dry, chalky or porous substrates, both concrete and wood. As a primer, ENCapSeal™ with ECOPROTEK™ resists fungus and mildew growth. This product also helps stabilize the substrate by minimizing surface variations. This promotes even consistent drying of water base floor covering adhesives. Surface variations being areas of the substrate that are more porous than others, and these areas pull more moisture from the adhesive causing them to dry and possibly skin over more quickly than adjacent areas. When some adhesives skin over they will not transfer to the floor covering backing, this can cause bubbles in carpeting and sheet goods installations, and adhesion failure in hard surface installations.

ENCapSeal™ is also an excellent product for use as a moisture barrier for vapor emission rates of up to eight pounds. ENCapSeal™ has also been designed to encapsulate old adhesive residue, including cutback residue. All soft, loose, or oxidized residue must be removed before encapsulation begins. When ENCapSeal™ is used for vapor emissions reduction or adhesive residue encapsulation two coats of the product must be applied to the substrate.

1. Check product; settling may occur. If needed, mix until product is smooth and consistent.
2. Apply with a 1/8" to 3/8" nap roller (Surface texture and porosity will determine nap size). For smooth surfaces or second coats use a shorter nap roller; for rough or porous substrates use a thicker nap roller. Do not pour directly onto substrate surface. Using a paint pan apply ENCapSeal™, rolling in the same direction with even consistent strokes. Allow to dry 2 - 3 hours before applying second coat. Second coat should be applied horizontal, or at a 90° angle to the first coat. Film thickness should be 6 mils or more after final application dries.
3. Allow 48 hours drying time after applying second coat before installing floor covering. Follow adhesive and floor covering manufacturers recommendation concerning trowel size, open time, etc.

#### WARRANTY:

- ENCapSeal™ is warranted to control vapor emissions up to eight pounds/24 hours/1000 square feet.
- ENCapSeal™ has a five-year limited warranty covering materials, product and reasonable labor. (See ENCapSeal™ Warranty)
- ENCapSeal's warranty period is extended to 7-years when these premium APAC adhesives are used. A-2001, A-2000, A-440, A-440SF, A-757, U-984, A-530, A-510, A-610, VG-551 and EZ-471.

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