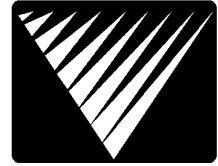


Vanberg Specialized Coatings

Armor-Rock (Aggregate Filled Broadcast) System Application Guide



PROFESSIONAL COATINGS

PRODUCT DESCRIPTION:

Armor-Rock is a multi-component seamless 1/16" to 1/4" VSC Epoxy Aggregate Filled floor overlay system. It has high wear, chemical and stain resistance. It is impact resistance, easy to clean and is a uniform non-slip surface.

RECOMMENDED USAGE:

Designed for use in heavy-duty areas where slip-resistance, ease of cleaning and cosmetics are a major consideration. Armor-Rock flooring is ideally suited for many applications found in food processing, agricultural facilities and industrial plants. When used in conjunction with Con-Korite Plus or Epo-Stone flooring systems (as an overlay or repair), areas requiring non-slip and durable overlays such as dairies, livestock facilities, food plants, heavy duty work areas, shops and manufacturing areas may effectively be resurfaced. Select the VSC EPOXIES that best fit the application.

ADVANTAGES:

- Extremely tough wearing
- High impact resistance
- Slip-resistant even when wet
- Attractive and easy to maintain
- No joints or seams; sanitary
- 100% solids system, low odor
- Excellent chemical resistance

PACKAGING AND COVERAGE:

Armor-Rock flooring is a multi-product system that is packaged in kits as pre-portioned batches for error-free job site mixing and application.

Base mix (typically Armorcoat Base)

1.5 gal mixed with 25 AR ADMIX covers 21 sq ft @ 1/4", 28 sq ft @ 3/16". For less than 3/16" inch use the Armor-Rock THX System as the base coat. Clear, medium gray or other color options are available.

Admix 25 lb VSC Armor-Rock Admix

Broadcast aggregate

35 lb ES Natural Blend, 35 lb G-Diamond Blend, 50 lb VSC Medium, 50 lb VSC Fine.

Topcoat (optional)

One coat Armorcoat (50-100 sq ft per gallon). Clear, medium gray or other color options are available. Additional coats can be applied for desired texture.

A VSC Urethane can be applied as a final topcoat at 300 sq ft per gallon over the Armor-Rock overlay if additional scratch, stain and chemical resistance is required.

FLOOR PREPARATION:

The Armor-Rock flooring system is applied over a clean, mechanically abraded or chemically etched, rinsed and dried floor. For uniform appearance, the floor must be pre-patched and leveled using compatible VSC patchers and crack fillers (see VSC repair guide). Consult with a VSC technical representative for assistance.

GENERAL PRODUCT DATA	
COLORS	Clear or medium gray standard. Other colors available.
COVERAGE	21 sq ft @ 1/4", 28 sq ft @ 3/16", 42 sq ft @ 1/8", and 84 sq ft @ 1/16".
BATCH MIX	1.5 gallons of selected VSC Epoxy plus 25 lbs of AR Admix that is added to the mixed VSC Epoxy then spread on the surface to be coated. Additionally, 1 lb of selected VSC Broadcast is broadcast over the wet epoxy on the floor.
TOPCOAT (OPTIONAL)	50-100 sq ft per gallon of selected VSC Epoxy
NOTE: A second topcoat can be applied for a smoother finish.	
APPLICATION METHOD	Base mix is applied using notched squeegee or trowel followed by looped roller cover to level. Broadcast aggregate is applied by sand blower or by hand. Topcoats are applied by flat or notched squeegee followed by roller.
CURE RATE (FINAL)	BASE COAT: See data sheet of selected epoxy. Typically 6 to 8 hours. TOPCOATS: See data sheet of selected product. Typically 6 to 8 hours. Faster versions available

Priming

Not required on a properly prepared substrate. However, on highly porous, rough or questionable surfaces a pre-coat may be necessary for level the floor and fill bug holes.

BASE MIX AND BROADCAST AGGREGATE:

Mixing and application

Before proceeding with the mixing and application of the base mix and the broadcast aggregate, make sure the surface is properly prepared (see VSC concrete preparation guide) and the temperature of the areas, floor and material are at least 60°F. Ideally, the products should be 70-75°F. In addition, a mixing area should be set up nearby with the necessary equipment and materials ready.

The base mix is designed to provide the basic color for the finished flooring system and to securely bond the selected aggregate broadcast to the overlay. The color of the finished floor will ultimately be the color of the epoxy used.

The hardener and resin components of the base mix epoxy are carefully mixed together as directed using a proper mixer. Then, add the Admix to the mixed epoxy and continue mixing until the aggregate is thoroughly wetted using the prop mixing or pail mixer. Then, the mixed system is poured on to the substrate in the form of a bead. The base mix is then uniformly spread working from left to right then right to left with a notched squeegee or gauge rake to cover the area desired based upon the thickness of the system selected. Use a notched trowel in tight or narrow spaces to spread the base mix. **IMPORTANT: Working times need to be watched closely as they will vary with the epoxy chosen and the temperature of the materials and environment. It is best to empty the entire contents of the base mix onto the surface being coated to extend the working time. Do not leave the base mix in the container for more than a few minutes. Start with small batches of base mix (especially in tight areas where it takes longer to get the base mix placed). Mix only as much epoxy and aggregate that can be applied within the working time of the selected epoxy and at the temperatures present at the time of application.**

Then, roll the wet epoxy with a looped roller cover to remove any squeegee lines and to level the material on the floor. **It is important to remember that any ridges, puddles or lap marks left in the basecoat may show through the final topcoat and affect the appearance of the finished surface.**

Then the selected aggregate broadcast is applied as evenly as possible (no sand piles) over the wet epoxy base mix surface at the rate of 1 lb per sq ft. (rough floors may require more broadcast). Hand broadcast can be used in smaller areas. The surface **MUST** have a uniform dry appearance (no piles or shiny spots). Use VSC Spike Shoes on large surface areas to walk on wet epoxy. Do not walk on areas of sanded epoxy with spiked shoes.

IMPORTANT NOTE: It is vital that a 1 ft to 2 ft “wet edge” be left between batches placed on the floor. Do not broadcast sand to within the 1ft to 2ft edge of the wet epoxy. This area is required to blend in the next batch.

After the basecoat reaches its initial set (hard enough to walk on), a good quality, medium bristle industrial push broom should be used to carefully sweep the excess aggregate from the applied area. A vacuum could also be used. At this point, the resultant surface will have the texture of medium to coarse sandpaper and be dull in appearance.

If spots were missed or damaged, they can be touched up at this time (in the same manner as the first coat) and allowed to cure.

TOP COAT (OPTIONAL):

Mixing

Thoroughly mix the selected VSC Epoxy by combining the pre-packaged hardener and resin according to the data sheet instructions. Keep in mind the working times and the temperature conditions to be sure to not mix more material than can be applied within those time periods.

Application

Epoxy topcoats should be spread and pulled down tight with a flat bladed squeegee followed by rolling to remove lines and areas of excess epoxy with a high quality VSC Epoxy roller cover. Roll each topcoat uniformly and close to the recommended coverage rate. Apply urethane (if used for added chemical, stain and scratch resistance) from roller pan using an Epoxy cover. For the most uniform topcoat, always use the same application technique for the entire coating process. Time permitting, two thin coats will provide a more uniform coating than one thick coat. It is important to note that if the epoxy, air or floor temperatures are cold or cool, the epoxy will not flow out as well. By raising the temperature of these items or by adding 1 pint of Solvent 101 per 1.5 gallons epoxy, flow will be improved. Do not attempt to apply products when temperatures are below those listed on page one. Allow topcoats to fully cure before use (refer to data sheets).

NOTE: Subsequent topcoats can be applied within the recoat times of the selected epoxy or urethane. Additional topcoats will result in a smoother surface. These are determined by floor system requirements (consult with VSC).

LIMITATIONS:

Not recommended for application over tile, brick, asphalt or mastic. Painted surfaces must have the old coating removed by stripping or mechanical means.

CLEAN UP:

Wipe excess uncured epoxy liquids from the squeegee and other application equipment. VSC Solvent 101 or xylol can be used to complete this clean up. Use MEK for urethanes. Used roller covers should be discarded.

Refer to material safety data sheet for safety and handling information.

See individual labels for more cautionary statements.

DISPOSAL:

Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture, or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. Dispose of in accordance with federal, state and local regulations. Use licensed hazardous waste companies.

WARRANTY STATEMENT

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