

Vanberg Specialized Coatings

Armor-Rock (Smooth High-Build Overlay) System Application Guide



PROFESSIONAL COATINGS

PRODUCT DESCRIPTION:

Armor-Rock THX is a multi-component seamless 1/32" 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 smooth surface.

RECOMMENDED USAGE:

Designed for use in heavy-duty areas where smooth finishes, ease of cleaning and cosmetics are a major consideration. Armor-Rock THX flooring is ideally suited for many applications found in food processing, agricultural facilities and industrial plants. When used in conjunction with Con-Korite or Epo-Stone flooring systems (as an overlay or repair), areas requiring smooth 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 Epoxy formulation to use that best fit the application.

ADVANTAGES:

- Extremely tough wearing
- High impact resistance
- Smooth and seamless
- Attractive and easy to maintain
- No joints or seams; sanitary
- 100% solids system, low odor
- Excellent chemical resistance

PACKAGING AND COVERAGE:

Armor-Rock THX flooring is a multi-product system that is packaged in kits as pre-portioned batches for error-free job site mixing and application. Or, it is available as components for economy.

Base mix (typically Armorcoat Base)

1.5 gal mixed with 10 lbs. THIXO additive covers 90 sq ft @ 1/32", 60 sq. ft. @ 1/16th inch. Clear, medium gray or other color options are available.

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

FLOOR PREPARATION:

The Armor-Rock THX 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 patch 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	90 sq ft @ 1/32", 60 sq ft @ 1/16" per batch
BATCH MIX	1.5 gallons of selected VSC Epoxy plus 10 lbs of THIXO that is added to the mixed VSC Epoxy then spread as a slurry over the surface to be coated.
TOPCOAT (OPTIONAL)	300 sq ft per gallon of selected Ultra-Gloss CRU urethane.
NOTE: A second topcoat can be applied for a smoother finish.	
APPLICATION METHOD	Base mix is applied using notched squeegee or notched trowel followed by looped or spiked roller cover to level. 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

Priming is highly recommended (but not required) for the best surface finish. VSC has a variety of primer options available.

BASE MIX

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 THIXO to the mixed epoxy and continue mixing until the aggregate is thoroughly wetted and blended in 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, notched trowel 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 or spiked roller cover to remove any squeegee lines, trapped air 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.**

TOP COAT (OPTIONAL):

Mixing

Thoroughly mix the selected VSC Urethane or 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. Top coats must be applied within the recoat window of the base epoxy used or proper profiling will need to be completed before coating.

Application

Epoxy topcoats should be spread and pulled down 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. It is important to note that if the 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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VANBERG SPECIALIZED COATINGS
PO BOX 19414
LENEXA, KS 66285-9414

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