**PROFESSIONAL COATINGS**

**PRODUCT DESCRIPTION:**

ARMORCOAT 3150 MULTI-PURPOSE EPOXY CLEAR is a two-component 100% solids epoxy coating designed for applications concrete floors that are subjected to light to moderate traffic and chemical spillages. ARMORCOAT 3150 meets all of the USDA guidelines for use in federally inspected poultry and meat plants.

**RECOMMENDED USAGE**:

Recommended for warehouses, shop floors, agricultural facilities, kitchens, restrooms and other areas where a high build product is needed. Combine with VSC AGGREGATES to form ARMOR-GRIT, ARMOR-ROCK, ARMOR-ROCK THX and ARMOR-SLATE Systems. Accepts VSC COLOR ADDITIVES.

**PACKAGING INFORMATION:**

* 1.5 gallon (5.7L) unit (available in CLEAR only)
* 15 gallon (57L) unit packaged in three proportioned 5 gallon (19L) pails (available in CLEAR only)
* 165 gallon (627L) unit packaged in three proportioned 55 gallon (209L) drums (available in CLEAR only)

**COVERAGE (As a Coating):**

50-140 sq. ft./gal. @ 32 -11 mils

**CURE SCHEDULE:**

Pot life (1 1/2 gallon volume) 15 – 20 minutes @ 75º F

Tack free (dry to touch) 3-4 hours @ 75º F

Recoat or topcoat 5-6 hours @ 75º F

Light foot traffic 10 hours @ 75º F

Full cure (heavy traffic) 24 hours @ 75º F

**FEATURES:**

* Easy Mixing Ratio
* Gloss Finish or Anti-Slip
* Solvent Free… low odor
* VOC Compliant
* Good Chemical Resistance
* Good Abrasion Resistance

**LIMITATIONS:**

* Color stability may be affected by environmental conditions such as high humidity o
* (ULTRA-GLOSS CRU) topcoats reduce (UV li r chemical exposure.
* This product is not UV color stable, but has good resistance to color change for an epoxy product. Therefore, a topcoat is optional. Clear aliphatic urethane ght) color changes to some extent.
* Substrate temperature must be 50 F above dew point.
* All new concrete must be cured for at least 30 days prior to application.
* Apply a suitable primer before using this product.
* See reverse side for application instructions.
* Physical properties are typical values and not specifications.

See reverse sidefor limitations of our liability and warranty.

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| **GENERAL PRODUCT DATA** | |
| **FEATURE** | **ADVANTAGE** |
| **MIX RATIO** | 1 part Hardener to 2 parts Resin by volume |
| **RECOMMENDED FILM THICKNESS AS COATING** | 11-30 mils |
| **APPLICATION TEMPERATURE** | 55º-85º F with relative humidity below 75% for best results. |
| **COLORS AVAILABLE** | Clear- Accepts VSC color additives |
| **FINISH CHARACTERISTICS** | Gloss (90+ at 60°@ BYK-Gardner Tri-Gloss) |
| **PRIMER** | Recommend clear EPO-SEAL or other ARMOR-PRIME. |
| **TOPCOAT** | Optional ULTRA-GLOSS urethane or ARMORCOAT over aggregate filled systems. |
| **SOLIDS BY WEIGHT** | 100% (+/- 1%) |
| **SOLIDS BY VOLUME** | 100% (+/- 1%) |
| **VISCOSITY** | Mixed = 1000 - 1100 cps (typical) |
| **FLEXURAL STRENGTH** | 14,300 psi @ ASTM D790 - 1/2" x 1/2" bars span 4" |
| **YIELD COMPRESSIVE STRENGTH** | 14,100 psi @ ASTM D695 - 1/2" x 1/2" bars |
| **TENSILE STRENGTH** | 8,900 psi @ ASTM D638 - testing dimensions F=2.25", W=0.500", T=0.125", D=4.5" and rate = 0.2"/minute. |
| **ULTIMATE ELONGATION** | 2.9% |
| **IMPACT RESISTANCE** | >160 in-lbs. @ ASTM D-2794 |
| **ABRASION RESISTANCE** | Taber abraser CS-17 calibrase wheel with 1000 gram total load and 1000 cycles = 65 mg loss |
| **ADHESION** | 450 psi @ elcometer (concrete failure, no delamination) |
| **HARDNESS** | Shore D = 81+ |
| **VOLATILE ORGANIC CONTENT** | 0.27 lbs/gal. VOC Compliant |
| **DRY HEAT RESISTANCE** | 140ºF Constant  200ºF Intermittent |
| **SHELF LIFE** | 1 year in unopened containers |

## COVERAGE:

This product should be applied at the rate of approximately 150 sq. ft. per gallon (3.68m2/ L), which is approximately 11 mils (0.28mm). As with all coatings, coverage is dependent on the smoothness and porosity of the surface. Since this product is 100% solids, it can be applied as thick as needed. For ARMOR-ROCK and ARMOR-SLATE systems add 15 – 25 lbs. of selected VSC aggregate to each 1.5 gal. mix. See VSC SYSTEM APPLICATION GUIDES for details.

## SURFACE PREPARATION:

The substrate must be clean, dry and sound with new concrete cured for at least 30 days at 70°F (21°C). A moisture test is recommended. Remove dust, laitance, grease, curing compounds, waxes, foreign particles, disintegrated or soft base materials, and any previously applied potentially incompatible coatings. Create a surface profile on the surface by steel shot blasting, mechanical abrasion or acid etching. Repair cracks and joints with VSC’s EPOXY GEL, JOINT-FILL or other repair products. For additional concrete preparation information and methods, refer to VSC's Surface Preparation Guide. If the concrete surface is not prepared properly, product adhesion can be a problem.

## FOR BEST RESULTS:

* Use for interior applications (UV exposure can discolor).
* New concrete must cure for at least 30 days @ 70°F.
* DO NOT thin EPOXY without consulting VSC.
* DO NOT use when humidity exceeds 75% indoors.
* DO NOT allow material to puddle during application.
* Allow each coat to dry tack-free before recoating.
* Apply each coat within 24 hours of previous coat.
* Discard any material subjected to freezing.
* DO NOT apply to structurally unsound surfaces.
* Prime bare concrete with a suitable VSC primer.
* Apply a test patch to ensure adhesion.

## PRIMING:

For optimum results, prime the prepared concrete floor first with a recommended VSC primer.

Allow the VSC primer to dry thoroughly before mixing and applying the next coating. The primed floor should be tack free.

**Review VSC’S Material Safety Data Sheets (MSDS and Data Sheet) for the primer prior to mixing and applying.**

## MIXING:

Avoid mixing and application of this product if the floor temperature is below 55°F (10°C) or above 85°F (29°C). Also avoid application if the humidity is higher than 75% R.H. The product temperature should be at or near 70°F. The temperature of the floor, materials and air in the area of the installation all play a role in how the product will apply and cure.

**For bulk units:** Portion out Hardener and Resin into a clean 5 gallon (18.9 L) pail according to the mix ratio on the front of this data sheet. Mix thoroughly as stated above.  **Colorants:** VSC Colorants can be added to CLEAR EPOXIES by mixing the colorant with the Resin before adding the Hardener. Refer to VSC Colorant Data Sheet for appropriate levels of colorant addition. Typically 1 quart colorant per 3-gallon Unit. VSC EPOXY CATALYST (KICKER PACK) can be mixed into the epoxy to hasten cure.

## POT LIFE:

At 75°F (23.9°C) and 50% R.H., this epoxy has a useful pot life of approximately 15-20 minutes. If the product or conditions become warmer the pot life and working times will be shortened significantly. Using any product beyond the useful life will result in variable results and therefore any mixed product beyond the pot life should be discarded. Apply all material to the floor as quickly as possible to increase working time. If product begins to heat or steam do not put it on the floor (Discard).

## APPLICATION:

The recommended application of this product involves pouring it in a narrow line directly onto the concrete surface and then spreading it with a serrated or flat bladed squeegee. Use a brush or 4” epoxy roller along edges and around equipment (cut-in). Spread the coating in a continuous manner from one side of the area being coated to the other. Spread the epoxy at the decided upon coverage rate. Immediately follow with a 3/8” (.95 cm) nap epoxy roller cover. The epoxy should be rolled as evenly as possible to eliminate spike shoe and squeegee marks. Overlap the next column to be rolled by at least ½” (1.3cm) with the previously rolled column. Avoid excess rolling of the epoxy with the roller to avoid splatter and lessen chances of bubbling of the final film. To achieve a smooth surface, or to best cover imperfections in the floor, it is recommended to roll the coating with a spiked or looped roller. The individual(s) applying the epoxy should be wearing “spiked sandals” available from VSC. Allow the epoxy to cure thoroughly before mixing and applying the next coat (if used). It should be tack-free before recoating. If the humidity gets very high, the product may exhibit a “blush”. This can be removed with a solvent wipe or by screening before applying the next coat.

## CLEAN UP:

Use SOLVENT 101 or xylol.

## DISPOSAL:

Empty containers may contain product residue, including flammable or combustible vapors. Do not cut, puncture or weld near these containers. Label warnings must be observed until containers have been commercially cleaned or reconditioned. Containers to be thrown out must be disposed of in accordance with federal, state and local regulations. Use only licensed hazardous waste disposal companies if required.

**MAINTENANCE:**

For optimal floor appearance and performance following installation, refer to VSC’s Floor Maintenance Instructions.

**CUSTOMER NOTE:**

For information on application situations not covered above, contact your VSC rep.