



A1 VFC

SOL-GEL BASED COATING FOR VINYL FLOORING

PRODUCT DESCRIPTION

Armor A1 VFC is a single component, spray down, sol-gel based clear liquid quartz coating that creates a thin and durable layer of quartz to protect vinyl, linoleum and vinyl composition tiles. Armor A1 VFC provides excellent abrasion and chemical resistance while protecting glossy appearance of VCT or vinyl floors. Comes in gloss, satin or matte if desired. The clear quartz layer removes the need to keep stripping and waxing these types of floors, significantly lowering maintenance costs.

FEATURES

- DURABLE, WEAR RESISTANT, EASY CLEAN CLEAR TOP COAT
- PROTECTS GLOSS AND REMOVES NEED TO CONTINUOUSLY STRIP AND WAX VINYL, VCT OR LINOLEUM FLOORS
- EXCELLENT SCRATCH RESISTANCE
- EXCELLENT CHEMICAL RESISTANCE
- EXCELLENT STAIN RESISTANCE
- PREVENTS SCUFFS, ACID ETCHING, AND FOOD AND BEVERAGE STAINS.

USES

- Protect Vinyl floor products, Linoleum, and Vinyl Composition Tile.
- It is a solution for Scuffs, acid etching, and food and beverage stains.

STORAGE

12-24 months in factory delivered, unopened drums. Store on pallets and keep away from extreme heat, freezing, and moisture. Store at temperatures between 50 °F and 80 °F (10 °C and 27 °C).

COLORS

Clear to slight amber to rose (depending on temp and humidity) always dries clear. Comes in gloss, satin or matte

PACKAGING

1 gallon buckets, 5 gallon pails, 55 gallon drums

COVERAGE

Calculation for theoretical coverage: 500 – 800 Ft² /gal. Coverage will vary depending on applicator, the porosity and texture of the substrate.
Recommended Spread Rate per coat: Wet mils: 2.0 to 3.0

MIXING

Ready to use. There is no need for mixing or diluting.

TECHNICAL DATA All values @ 77 °F / 25 °C

VOLATILE ORGANIC COMPOUNDS (ASTM D2369)
THEORETICAL COVERAGE
SPECIFIC GRAVITY OF MATERIALS (ASTM D792)
SHELF LIFE @ 77 °F /25 °C
FLASH POINT - PENSKEY MARTIN
APPLICATION TEMPERATURE
TOUCH DRY
DRY THROUGH
RECOAT INTERVAL
LIGHT FOOT TRAFFIC
FULL CURE

US

< 0.83 LB./GAL
500 – 800 FT² /GAL @ 0.7-1.0 MILS DFT
7.36 LBS./GAL
12-24 MONTHS
<72 °F
45 – 105 °F
2-3 HOURS
3-5 HOURS
1-60 MINUTES
5-8 HOURS
7 DAYS

METRIC

< 100 GM/ LITER
12-20 M²/LITER @ 10-23MICRONS
0.88 KG/ LITER
12-24 MONTHS
< 22 °C
7 – 40 °C

PROPERTIES AND VALUES ARE HIGHLY DEPENDENT ON EQUIPMENT, SPRAY GUN, MIX CHAMBER TEMPERATURE, PRESSURE AND RELATED PARAMETERS. VALUES ARE SLIGHTLY DIFFERENT FOR CLEAR. VARIATIONS ARE POSSIBLE AND EXPECTED.



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SURFACE PREPARATION

Before applying Armor A1, make sure that the areas to be coated are completely clean of oils, dirt, scuff marks by using an approved cleaner. Make sure any loose tiles or sheet vinyl are re-glued, and in sound condition. For a higher shine prior to application, Vinyl floors can have 3 to 4 coats as a base of a good quality acrylic emulsion wax and burnished to desired shine. This is not necessary and any visible marks or dirt not cleaned prior to application will show through coating.

NEW VINYL FLOORS

New vinyl floors must be coated with a good quality acrylic emulsion wax that is burnished to desired shine as a base prior to applying the Armor A1. Any visible marks or dirt not cleaned prior to the application will show through our coating. Must ensure A1 VFC does not negatively react or emulsify acrylic emulsion.

EXISTING VINYL FLOORS

Existing vinyl floors do not need to be stripped unless they are in bad condition. The existing floor should have a quality acrylic emulsion wax as a base that is in good condition. Burnish the last coat to the desired shine before applying the A1. Ensure A1 does not negatively react or emulsify acrylic emulsion. Any visible marks or dirt not cleaned prior to the application will show through coating.

APPLICATION

Make sure to sample A1 in an inconspicuous location before applying to entire area to ensure desired results are achieved.

Once surface has been properly cleaned and prepared, mask off any adjacent surfaces to avoid accidental coating. Inspect and clean one more time to make certain no contaminants got on floor after masking. Stir the contents gently to resuspend the nano particles that have settled to the bottom. Make certain these materials get completely mixed into the container.

Pump Spray Application

Stir the contents gently in the container to resuspend the nano particles that have settled to the bottom before pouring into sprayer. Using an acetone/alcohol proof pump sprayer or equivalent, install a red fan tip on the wand, as this provides the most even application. It is recommended to keep an even amount of pressure while spraying in order to keep a consistent look. We recommend hooking up a compressor and air hose with a quick release to the valve stem on the acetone proof pump sprayer and then supply the sprayer with a constant 25-30 PSI. This will provide an even flow and finish. To start spraying, hold the tip square to the surface being coated at a distance of 10" to 12" off the floor. In a separate container, begin spraying into the container to avoid initial spitting of product on the floor caused from air trapped in the spray wand. When you stop spraying, also stop the flow in the separate container, as spray wands often drip a few drops after handle is released. You want to provide even distribution of the coating, so a smooth circular motion should provide good coverage. This product should go on thin and never allow puddling. It is always best to spray on a few mockups to get the feel of applying this product before attempting an actual project. Be careful not to apply too thick (THIN TO WIN) or allow the product to puddle, as this will cause too much surface tension and possible bubbles or delamination. Do not apply a second coat unless there is a flaw in your application of the first coat. If a second coat is necessary, wait 24 hours for the surface to dry. Then abrade the surface with 400 grit sandpaper or a green pad on a buffing floor machine to allow the second coat to bond. Clean floor of dust and reapply.

INTERRUPTION OF WORK

Upon drying, treated surfaces may appear similar to untreated surfaces. It is possible areas could remain untreated if work is interrupted. It is advisable to stop application on a corner joint or any other obvious marker so the applicator can begin where the application had previously ceased.

CARE AND MAINTENANCE

Mop periodically with plain water. Never use vinegar to clean the finish as, over time, this will break down the coating. If paint or ink get spilled onto coating, use an approved cleaner, then rinse with fresh clean water and dry with mop. Although Armor A1 is scratch resistant, it is not scratch proof. Do not use abrasive cleansers or abrasive scouring pads. If an area gets damaged or is mechanically abraded, lightly sand the area with 220 grit sandpaper and reapply A1. If the substrate is damaged at the same time, make the necessary repair first, and then re-apply Armor A1.



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EQUIPMENT CLEAN UP

After application, equipment should be cleaned by pouring a solvent (acetone, methyl acetate, TBA, or similar) into device and spraying out to "flush out" any remaining product from the lines. After one flush out, repeat for 2 total flushes. Clean tools and flush equipment with acetone immediately after use. Cleanup must occur before coating is dry. Once coating is dry, neither acetone or any other solvent will successfully clean tools and equipment.

CAUTIONS

Always wear OSHA approved 1910.134 and ANSI Z88 2 Respiratory protection. Fresh air and exhaust are required in the work area. If inhaled, remove affected person to fresh air. Call physician immediately if physical difficulties occur. Wear butyl- rubber gloves and skin protection to avoid contact. In the event of contact with skin, wash skin thoroughly with soap and water. Chemical safety goggles or splash shields are required. Do not wear contacts without eye protection. Immediately flush eyes with water for 15 minutes after contact and get medical attention. If accidentally swallowed, rinse mouth thoroughly and obtain immediate medical attention. OSHA rules dictate an observer should monitor applicator for any signs of physical distress when applying coatings in enclosed areas.

WARRANTIES AND DISCLAIMERS

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