

**EXTREME PERFORMANCE PRODUCT  
FOR PROFESSIONAL USE ONLY**

**Adsil, Inc.**

**TECHNICAL DATA SHEET TS-34**

**MicroGuard® Concrete Clear Waterproofing Sealer AD702**

TYPE	DRY FILM THICKNESS	APPLICATION METHOD	THINNER	CLEAN UP	DRY TIME		
					TACK	RECOAT	CURED
Clear Inorganic Reacted Siloxane	<b>WFT</b> – 1 to 1.5 mils <b>DFT</b> – 8 to 12 microns	Spray, Short Nap Roller or Brush	MicroKleen™ AD1-103 AD1-919	MicroKleen™ AD1-919	1 hour	4 hours	5 to 7 days (full cure)

**DESCRIPTION:** MicroGuard® AD702 Clear Sealer is primarily designed as a quick recoat sealer for interior concrete or concrete terrazzo floors prior to the application of MicroGuard® AD703 Concrete Clear Gloss Treatment. It may also be used as a sealer for quarry tile or slate floors and in certain instances as a sealer for matte/low sheen ceramic tile preliminary to the installation of MicroGuard® AD708 Tile Clear Gloss Treatment. AD702 is the preferred sealer for vertical concrete surfaces when MicroGuard® AD00 is needed for anti-graffiti mitigation.

- **Concrete**
- **Concrete Terrazzo**
- **Certain Hard Tile**
- **Décorative Stone**
- **Porous Grout**

**WHERE TO USE:** MicroGuard® AD702 is designed to be applied onto properly prepared interior concrete floors, concrete terrazzo, or vertical exterior concrete. Its fast 4 hour recoat-ability feature allows for finishing coats to be applied in the same day.

**SURFACE PREPARATION:** The concrete to be sealed must have aged at least 28 days and must be clean, dry and free from efflorescence, curing compounds, form release agents, dirt, grease, oil, adhesives, mildew, stains or any other contamination.

**Horizontal Concrete –**

1. Liberally apply MicroKleen™ PLC-1 Industrial Cleaner & Degreaser, diluted 1:1 with clean, hot water. PLC-1 can be applied by directly pouring onto the surface or by using an Adsil Pump & Wand Spray System. Using a swing machine and black or green pad or a nylo-grit brush, mechanically agitate the cleaning solution. Pick up residues with rinse & vacuum reclaim equipment. If necessary, repeat the cleaning process until all contaminants have been removed. Dispose of all rinse material properly.
2. Newer concrete should be treated with MicroKleen™ PLC-35 Phosphoric Acid Etch & Clean, per label instructions. Pick up residues with rinse & vacuum reclaim equipment. Read product MSDS carefully before use.
3. Check surface pH to verify it is between 6 (acidic) and 8 (basic) before proceeding to installation of sealer. Use pH paper and distilled water for validation.
4. Allow the surface to dry completely (15% moisture or less) before sealer installation! Check moisture content using a standard probe moisture meter. Conduct several readings.

**Vertical Concrete –**

1. Most exterior vertical concrete can be sufficiently cleaned by high pressure cleaning. Use soap injection where needed. Rinse thoroughly and allow to dry (15% moisture or less).
2. If efflorescence is present, flush concrete with MicroKleen™ PLC-35, per published instructions, then resume pressure washing.

**MIXING INSTRUCTIONS:** MicroGuard® AD702 Sealer is a three-component product and must be properly mixed before use. AD702 is packaged, in kit form, as **A, B & C** components. For proper mixing:

1. Pour the **A** component liquid into a clean, white or clear HDPE 5 gallon plastic bucket, only. Then, pour the **B** component liquid into the **A** component.
2. Using the Adsil Product Mixer blend the components together at low speed for 20 minutes. Make every effort to keep the mixing paddle from striking the side of the bucket while the paddle is rotating. Always cover the bucket with a 'V' cut notched lid during mixing.
3. Next, pour the **C** component liquid into the admixture of the **A & B** components. Mix for an additional 15 minutes. You will notice a moderate exothermic heat reaction as the mixing occurs. This is a normal product reaction. Place a full lid over the bucket and set the mixed product aside for 30 minutes to chemically induce ("sweat in").
4. For best application results, apply the properly mixed AD702 within 2 hours. The pot life of mixed AD702 is up to 4 hours. Elevated ambient temperature shortens usable pot life.

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**APPLICATION:** Two application methods are preferred; application by spray or by roller methods.

**Conventional Spray** – For interior floor areas, use an Adsil dual regulated pressure pot and spray gun/wand housing a #5 or #10 cone tip mounted in a 45° connector. Attach to an air compressor that can deliver at least 3 CFM @ 90 PSI. Set the fluid (pot) pressure gauge at 80-85 PSI and the air pressure gauge at 0 PSI. No air hose to the gun is needed, only a fluid hose. With fluid (pot) pressure only, spray by overlapping each spray pass by 50% to a thin and even film deposit and never greater than 1.5 mils wet film thickness, per coat. AD702 may be recoated in 4 hours.

**Airless Spray** – Mount a glycerin (liquid filled) pressure gauge between the pump and fluid hose so that pump pressure can be monitored. Seat a 511 to 613 reverse-clean tip into the gun/nozzle housing. Run the lowest pump pressure possible, while still maintaining a good fan pattern, free from “tailing”. Typically, this is between 500 - 650 psi. Spray in a cross-hatch pattern in order to avoid skips and holidays. Over lap each spray pass by 50%. Always apply in a thin and even film deposit and never exceed 1.5 mils wet film thickness, per coat. Always mask, cover and/or protect adjacent surfaces not to be coated. Move automobiles and vehicles away from the spray area. Check wind conditions during exterior application to determine direction of over spray drift.

**Roller** – Use a top-quality mohair or lambs wool roller cover. Pick up product into the cover and apply evenly. Finish using a series of one directional roller strokes. Avoid over rolling the material and avoid working back into partially “set” material. Always maintain a wet line.

**Brush** – For small or tight areas, use a natural hair bristle brush. Apply using a series of one directional strokes.

**Note:** MicroGuard® AD702 cures by a cross-linking reaction and can take 5 - 7 days for full cure to be realized. Curing of the film does not occur at ambient or surface temperatures below 50° Fahrenheit.

**CLEAN UP:** Application tools and spray equipment should be cleaned using MicroKleen™ AD1-919 Spray & Equipment Cleaner (IPA). Flush the pump, hose and gun thoroughly until all AD702 residue has been cleaned from the spray system. Remove the tip and nozzle housing and clean thoroughly before replacing onto the gun.

Any drips, spills or over spray can be cleaned using a cotton cloth saturated with MicroKleen™ AD1-919 before MicroGuard® AD702 dries to touch. Dispose of alcohol saturated cloths in a safe manner.

**PRODUCT YIELD:** The ft<sup>2</sup> per gallon yield of AD702 Sealer varies with substrate porosity. When treating smooth trowel, polished or densified concrete, the yield can be as high as 650+ ft<sup>2</sup> per gallon. When treating porous, brushed or pitted concrete, the yield can range from 350 to 600 ft<sup>2</sup> per gallon.

### ASTM LAB TESTING:

ASTM G 21 Fungal Growth – Zero (0) Growth

ASTM C 1028 Coefficient of Friction; Dry – 0.84, Wet – 0.83

**Note:** All MicroGuard® product performance testing has been accomplished by accredited, third party testing laboratories and in full compliance with the particular ASTM Testing Protocol.

**POST CLEANING:** For general post cleaning maintenance situations and in order to ensure the best cleaning results without damaging the MicroGuard® Clear Treatment System, use MicroKleen™ PLC-1 Industrial Cleaner & Degreaser. For best cleaning results, dilute MicroKleen™ PLC-1 Cleaner 1 part cleaner to 20 parts water. For difficult grime removal, incorporate the use of a swing machine and white pad or a soft bristle scrub brush mounted onto an extension handle. Liberally flush the surface with dilute **MicroKleen™** PLC-1, allow the cleaner to “work” for 1 to 2 minutes, then, rinse thoroughly with clean water.

**Do not use harsh or abrasive alkaline cleaners for post maintenance.**

**THINNING:** If you are applying MicroGuard® AD702 when ambient conditions are hotter than 85° F, when relative humidity is less than 50% or during windy conditions, it may be desirable to post add MicroKleen™ AD1-103 Retarder Solvent into the product after its 12 hour induction (“sweat in”) period. Add as needed.

In cooler ambient or surface environments, thin using MicroKleen™ AD1-919 Isopropyl Alcohol. Add as needed.

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