

**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	TACK	DRY TIME RECOAT	CURED
Clear Inorganic Siloxane	WFT – 1 to 1.5 mils DFT – 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: (FOR CONCRETE)		MicroGuard® AD702 Clear Sealer is primarily designed for application onto concrete type floors to seal and mitigate water vapor transmission preliminary to installing other flooring systems, such as ceramic tile, wood laminate overlays, carpeting or vinyl flooring systems. MicroGuard® AD702 is also ideal when used as a quick recoat sealer on interior concrete floors prior to the application of MicroGuard® AD703 Concrete & Tile Clear Treatment.					
WHERE TO USE:		Concrete Aggregate Porous Grout Décor. Stone	MicroGuard® AD702 is designed to be applied onto properly prepared interior concrete slabs, as a water vapor transmission sealer. Its fast 4 hour recoat ability feature allows for multiple coats to be applied in the same day. It is also ideal for sealing porous grout or bare concrete & concrete terrazzo floors before the application of MicroGuard® AD703 .				
SURFACE PREPARATION:		The concrete to be sealed must have aged at least <u>28 days</u> and must be clean, dry and free from efflorescence, dirt, grease, oil, adhesives, mildew, stains or any other contamination. <ol style="list-style-type: none"> 1. Liberally apply MicroKleen™ Industrial Cleaner & Degreaser PLC-1, 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. If necessary, repeat the cleaning process until all contaminants have been removed. Pick up residues with rinse & reclaim equipment, such as Hydro-Force. Dispose of rinse material properly. 2. New or burnished (smooth) concrete should be treated with MicroKleen™ Phosphoric Acid Etch & Clean PLC-35, per label instructions. Pick up residues with rinse & reclaim equipment, such as Hydro-Force. Dispose of rinse material properly. 3. <u>Allow the surface to dry completely before coating installation!</u> 					
MIXING INSTRUCTIONS:		MicroGuard® AD702 is a three-component product and must be properly mixed for curing to occur. AD702 is packaged, in kit form, as A, B & C components. For proper mixing: <ol style="list-style-type: none"> 1. Pour the A component liquid into a clean, white or clear HDPE 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 <u>20</u> minutes. Make every effort to keep the mixing paddle from striking the side of the bucket while the paddle is rotating. Cover the bucket with a 'V' cut notched lid. 3. Next, pour the C component liquid into the admixture of the A & B components. Mix for an additional <u>15</u> 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 <u>30</u> minutes to chemically induct ("sweat in"). 4. For best application results, apply the properly mixed AD702 within 2 hours. The pot life of mixed AD702 is up to <u>4</u> hours. 					
APPLICATION:		Two application methods are preferred; application by roller or by spray and back roll methods. <p>Roller – Use a mohair or lambs wool roller cover with a solvent resistant core. Pick up product into the cover and apply 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.</p> <p>Spray & Back Roll – (Two-person team) For larger surface areas, use an Adsil dual regulated pressure pot and spray gun/wand housing a #5 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%. Immediately back roll into 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.</p> <p>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.</p> <p>Brush – For small areas, or for cutting in perimeter edges, use a natural hair bristle brush. Apply using a series of side-by-side, one directional strokes.</p>					

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CLEAN UP:	<p>Application tools and spray equipment should be cleaned using MicroKleen™ Spray & Equipment Cleaner (IPA) AD1-919. Flush the pump, hose and gun thoroughly until all AD702 has been cleaned from the spray system. Remove the tip and nozzle housing and clean thoroughly before replacing onto the gun.</p> <p>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.</p>
PRODUCT YIELD:	<p>The ft² per gallon yield of AD702 varies with substrate porosity. When treating smooth trowel concrete, the yield can be as high as 600+ ft² per gallon. When treating porous, brushed or pitted concrete, the yield can range from 350 to 550 ft² per gallon.</p>
ASTM LAB TESTING:	<p>ASTM G 21 Fungal Growth – Zero (0) Growth ASTM C 1028 Coefficient of Friction; Dry – 0.84, Wet – 0.83</p>
USED AS A SEALER:	<p>MicroGuard® AD702 may be used as a fast dry recoat sealer, under MicroGuard® AD703 Concrete & Tile Clear Treatment. Apply 1-2 sealer coats of MicroGuard® AD702 to the bare, aged concrete, allow 4 hours dry time per coat. Then, apply one coat of MicroGuard® AD703 Concrete & Tile Clear. When these Adsil products are used as a complete finishing system, you will experience a faster recoat cycle and less down time. Refer to Technical Sheet TS22 for AD703 product specifications.</p>
H₂O VAPOR BARRIER:	<p>Pre-test the H₂O content of the concrete slab using standard Calcium Chloride testing methods in order to determine the lbs./1000 ft²/24 hrs. H₂O vapor level currently in the slab. Apply two (2) coats of MicroGuard® AD702, per published instructions and allow 12 hours dry time. Retest the sealed slab with additional Calcium Chloride testing. The desired result is to achieve no more than 3 lbs./1000 ft²/24 hrs. of vapor transmission. Apply up to 2 more coats of MicroGuard® AD702 in order to achieve the 3 lbs./1000 ft²/24 hrs. vapor rating.</p>
POST CLEANING:	<p>For general post cleaning maintenance situations and in order to ensure the best cleaning results without damaging the MicroGuard® AD703 Concrete & Tile Clear Treatment, 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 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.</p> <p>Do not use harsh or abrasive alkaline cleaners for post maintenance.</p>
IMPORTANT NOTICE:	<p>If you are applying MicroGuard® AD702 when prevailing ambient conditions are hotter than 85° F, or when the relative humidity is less than 50% or during windy exterior conditions, it may be desirable to post add MicroKleen™ AD1-103 Retarder Solvent into the product after its 30 minute induction (“sweat in”) period, but before application begins. The following schedule represents a good benchmark for post adding (thinning) MicroGuard® AD702 after induction, but before application.</p> <p>Blend the post added AD1-103 (Retarder Solvent) into the catalyzed AD702 until the AD1-103 is evenly dispersed. This should only take about 30 seconds. <u>Always stir slowly to avoid entrained air.</u></p> <ul style="list-style-type: none"> • For each 1 Gallon Kit Size – post add up to 4 ounces of AD1-103 • For each 1 Quart Kit Size – post add up to 1 ounce of AD1-103 <p>Note: During cooler or more humid ambient conditions, when a faster solvent release is desirable, MicroKleen™ AD1-919 may be used instead of MicroKleen™ AD1-103. Use in the same volume proportion as listed above.</p> <p>Do not apply if surface, air or product temperatures are below 55° F.</p>
Microsil™ Technology:	<p>Adsil, 1901 Mason Avenue, Suite 101, Daytona Beach, Florida 32117 USA PHONE: 386-274-1382 FAX: 386-274-1798 WEB: www.adsil.com</p>

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