

**EXTREME PERFORMANCE PRODUCT
FOR PROFESSIONAL USE ONLY**

Adsil, Inc.

TECHNICAL SHEET TS-22

MicroGuard® Concrete Clear Gloss Treatment AD703

TYPE	DRY FILM THICKNESS	APPLICATION METHOD	THINNER	CLEAN UP	TACK	DRY TIME	CURED
					2 hours (average)	12 hours (light traffic)	5 to 7 days (full cure)
Clear Inorganic Siloxane	WFT – 1 to 1.5 mils DFT – 8 to 12 microns	Spray is Preferred Method	MicroKleen™ AD1-103 AD1-919	MicroKleen™ AD1-919	2 hours (average)	12 hours (light traffic)	5 to 7 days (full cure)
DESCRIPTION:		<p>MicroGuard® AD703 is designed to impart exceptional chemical, abrasion & stain resistance properties when applied onto bare concrete or textured hard tile floor surfaces. Further, the inorganic film will not support the growth of mold and mildew. MicroGuard® AD703 is ideal for floor applications where maximum chemical resistance is important. MicroGuard® AD703 can be applied as a stand-alone product on concrete, or it can be applied over MicroGuard® AD702 Concrete Clear Sealer as part of a faster recoat concrete sealer/finish coating system.</p>					
WHERE TO USE:		<p>Industrial Bare concrete, textured tile or terrazzo floors where maximum resistance to chemical attack, water exposure or abrasion resistance is desired. Commercial</p>					
SURFACE PREPARATION:		<p>Bare concrete or freshly installed grout must have aged at least <u>28</u> days before coating and must be clean, dry and free from oil, grease, dirt, laitance, adhesives, mildew or other contaminants that could negatively affect adhesion. Repair all crumbling grout, concrete or cracks with a suitable patching material.</p> <ol style="list-style-type: none"> For general concrete cleaning, use MicroKleen™ PLC-1 Industrial Cleaner & Degreaser. Apply PLC-1 to the surface after diluting the cleaner, 1 part PLC-1 to 1 part clean (hot) water. Use mechanical agitation with a commercial black pad or clean grit brush attachment. Rinse with clean water & vacuum reclaim. Make sure the floor is rinsed free from all residues. New concrete or grout & tile should be treated with MicroKleen™ Phosphoric Acid Etch & Clean PLC-35, per label instructions. Rinse thoroughly with clean water. Check surface pH to ensure a range of 6 to 8 is achieved. <u>Allow the floor to dry completely before product installation.</u> Use a probe moisture meter to verify moisture content is 10% or less. <p>Large industrial flooring can be efficiently prepared by using a dry preparation method, such as Blast Track™ – Wheelabrator recycling blast equipment. Use the least aggressive blast media.</p>					
MIXING INSTRUCTIONS:		<p>MicroGuard® AD703 is a three-component material and must be properly mixed before use. This product is packaged, in kit form, with separate containers for Components A, B & C. To mix:</p> <ol style="list-style-type: none"> Pour the Component A liquid into a clean, white or clear HDPE plastic bucket, then, pour the Component B liquid into the Component A. Using the Adsil Product Mixer blend the A & B components for <u>15</u> minutes. Avoid allowing the blade to strike the side of the pail during mixing. Always cover bucket with a 'V' cut notched lid during mixing. Next, add the Component C liquid into the admixture of the A & B components. Blend for <u>15</u> additional minutes. Allow the mixed material to induct ("sweat in") a minimum of <u>12</u> hours before use. Place a lid on the bucket during induction. Pot life of mixed AD703 is up to <u>72</u> hours. 					
APPLICATION:		<p>MicroGuard® AD703 is <u>best</u> applied by spray application. Small areas or perimeter edges can be rolled or brushed. The Adsil Spray System is the most efficient application method, however, other conventional or airless systems can be used. Be sure to mask, and/or protect from over spray any adjacent areas not to be treated. Wear respiratory protection and safety goggles.</p> <p>ADSIL SPRAY SYSTEM (preferred method) – Use an air compressor that can deliver a minimum of 3 CFM @ 90 PSI. Use an Adsil dual regulated pressure pot with a special Adsil spray wand/gun housing a #5 or #10 cone tip in a 45° connector. Set the fluid (pot) pressure gauge at 80 to 85 PSI and the air pressure gauge at 0 PSI. No air hose to the gun is needed, only fluid hose. With fluid (pot) pressure alone, spray by overlapping each spray pass by 50%. Keep the tip perpendicular to surface. Always apply in an even film deposit. Maintain a working wet line.</p> <p>AIRLESS – Use a diaphragm pump airless sprayer. Mount a liquid filled glycerin pressure gauge between the pump and the fluid hose to monitor pressure settings. Attach a 12" or 18" extension wand onto the airless gun. Place a 315 to 615 tip into a reverse-clean housing and attach to the end of the wand extension. Set the pump pressure at 500 to 650 PSI. Check the spray delivery. The proper pressure setting is the lowest setting that gives a good fan delivery free from tailing, yet, minimizes over spray. Spray by overlapping each pass by 50%.</p> <p>ROLLER – Smaller surface areas can be coated with a short nap roller cover. Fill cover with product and apply in slow passes. Finish by a series of slow, one directional roller strokes. Avoid over-rolling and always maintain a working wet line.</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, pot and gun thoroughly until all AD703 has been cleaned from the spray system. Remove the tip and nozzle housing and clean thoroughly before replacing onto the gun.</p> <p>Clean up drips, spills and over spray by saturating a cotton cloth with MicroKleen™ AD1-919 and wiping the affected area before the coating dries to touch. Dispose of alcohol saturated cloths in a safe manner.</p>
PRODUCT YIELD:	<p>MicroGuard® AD703 will yield 350 - 400 ft² per gallon on porous, pitted, brushed or unsealed concrete and up to 450 - 600 ft² per gallon on smooth trowel, dense or sealed concrete; for tile surfaces yield will be 600+ ft²/gal. Surface condition and application method will dictate the final yield.</p> <p>Recoat Information - If a second coat of MicroGuard® AD703 is desired, allow the first coat to dry/cure for at least 24 hours. Sand lightly between coats with fine sandpaper (200 grit) to dull surface gloss. For mechanical scarifying methods, use a 150 or 200 sanding screen. Remove sanding dust.</p> <p>When MicroGuard® AD703 is used as a finishing coat over MicroGuard® AD702 Sealer, allow a minimum of 4 hours dry time of the AD702 before finish coating with AD703. No sanding of the MicroGuard® AD702 is required.</p>
ASTM LAB TESTING:	<p>ASTM D 4060 Taber Abrasion (CS-17 Wheel @ 1000 Cycles) – 20.5 mg loss ASTM G 21 Fungal Growth – Zero (0) Growth ASTM D 2047 Coefficient of Friction; Dry – 0.41 Leather; 0.96 Commercial Neolite</p>
POST CLEANING:	<p>For general post cleaning maintenance requirements and in order to ensure the best cleaning results without damaging the AD703 film, use Adsil MicroKleen™ PLC-1 Industrial Cleaner. For best cleaning results, dilute the PLC-1 Cleaner 1 part cleaner to 20 parts clean (hot) water. For difficult dirt and grime removal, incorporate the use of a soft bristle scrub brush mounted onto an extension handle. Liberally wet-mop the surface with diluted MicroKleen™ PLC-1 cleaning solution. Then, rinse away or wet-mop thoroughly with clean water.</p> <p>Do not use harsh or abrasive alkaline cleaners for routine post maintenance.</p>
IMPORTANT NOTICE:	<p>If you are applying MicroGuard® AD703 when prevailing ambient conditions are hotter than 85° F, relative humidity is less than 50% or during windy conditions, it may be desirable to post add MicroKleen™ AD1-103 Retarder Solvent into AD703 after its final induction, but before application begins. The following schedule represents a good benchmark for post adding MicroKleen™ AD1-103 after induction, but before application:</p> <p>Blend the post added AD1-103 (Retarder Solvent) into the AD703 until the AD1-103 is evenly dispersed. This should take about 30 seconds. <u>Always blend 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: If ambient conditions are cooler or more humid, where faster solvent release is desired. Use MicroKleen™ AD1-919 instead of AD1-103.</p>
CURING INFORMATION:	<p>MicroGuard® Concrete Clear Treatment AD703 cures by a cross-linking mechanism. Full cure is achieved after 5 to 7 days (normal ambient). Whereas light to moderate foot is possible after 12 hours, its maximum chemical and abrasion resistance will not be realized until full cure has occurred.</p> <p>MicroGuard® AD703 <u>does not cure</u> when air or surface temperatures are <u>below 50° F.</u></p>
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Advanced Siloxane Technology – Preserve, Prolong, Protect

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