

**EXTREME PERFORMANCE PRODUCT  
FOR PROFESSIONAL USE ONLY**

# Adsil, Inc. TECHNICAL DATA SHEET TS-33

## MicroGuard® Hard Tile Clear Gloss Treatment AD708

TYPE	DRY FILM THICKNESS	APPLICATION METHOD	THINNER	CLEAN UP	TACK	DRY TIME USE	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 to 2 hours (average)	8 to 12 hours (light use)	5 to 7 days (full cure)
<b>DESCRIPTION:</b>		<p><b>MicroGuard®</b> AD708 is an inorganic, clear, siloxane finish, which is designed to provide excellent abrasion, chemical, mildew and stain resistance properties to ceramic or porcelain tile &amp; grout. It is specifically designed for coating smooth, hard tile floor surfaces, but is also ideal for textured tile. Do not use on heavily glazed or high gloss tile surfaces with minimal available anchor profile.</p>					
<b>WHERE TO USE:</b>		<p><b>Residential Commercial</b></p> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p><b>MicroGuard®</b> AD708 is designed for applications over bare hard tile surfaces. It may be used on properly prepared ceramic or porcelain tile after conditioning. Suitable for horizontal or vertical applications.</p> </div>					
<b>SURFACE PREPARATION:</b>		<p>The surface must be clean, dry and free from dirt, oil, mildew spores, efflorescence, temporary treatments or any other surface contaminate that could affect adhesion or curing of the film.</p> <ol style="list-style-type: none"> <li>1. Remove any temporary treatments using a commercially available floor stripper.</li> <li>2. For <u>heavy duty</u> cleaning requirements, use MicroKleen™ PLC-1 Industrial Cleaner &amp; Degreaser, per label instructions or a commercially available enzyme cleaner, such as Pro-Zyme by CTi or equivalent. Use mechanical or pressure agitation with a commercial black pad or 'Clean-Grit' scrub brush. Then, rinse &amp; reclaim with Hydro-Force type equipment. Repeat if necessary until surface is thoroughly cleaned and rinsed.</li> <li>3. Etch the tile &amp; grout floor surfaces with <b>MicroKleen™</b> Phosphoric Acid Etch &amp; Clean PLC-35, per label instructions. Pick up spent acid residues thoroughly with Hydro-Force type rinse &amp; reclaim equipment (portable rinse &amp; reclaim equipment is also suitable). Check surface pH to establish a 6 to 8 range before proceeding to product installation.</li> </ol> <p><b>Allow surface to dry completely before proceeding to application.</b> Grout areas are porous and hold water. Allow a minimum of 4 hours dry time before application. Use fans or dehumidifiers to help with drying. Use a probe moisture meter to ensure grout moisture content of 10% or less.</p>					
<b>MIXING INSTRUCTIONS:</b>		<p><b>MicroGuard™</b> AD708 is a three-component material and must be properly catalyzed before use. AD708 is packaged, in kit form, with separate containers for Components <b>A</b>, <b>B</b> &amp; <b>C</b>. To mix:</p> <ul style="list-style-type: none"> <li>• Pour the Component <b>A</b> liquid into a clean, white or clear HDPE plastic bucket, then, pour the Component <b>B</b> liquid into the Component <b>A</b>.</li> <li>• Using the <b>Adsil</b> Product Mixer blend the <b>A</b> &amp; <b>B</b> components for <b>15</b> minutes. Avoid striking the side of the bucket with the paddle while it is rotating. You will notice a moderate exothermic heat reaction as the components are mixed together. This is normal. Keep bucket covered with a cut 'V' notched lid during mixing.</li> <li>• Next, add the Component <b>C</b> liquid into the admixture of the <b>A</b> &amp; <b>B</b> components. Again, blend for <b>15</b> additional minutes.</li> <li>• Cover the bucket with a full lid. Allow the mixed material to chemically induct for <b>12</b> hours before application. The usable pot life of mixed material is up to <b>72</b> hours.</li> </ul>					
<b>APPLICATION:</b>		<p><b>Conventional (Floors)</b> – Use an air compressor that can deliver a minimum of 3 CFM @ 90 PSI. Strain mixed product through a 100 mesh cone filter into an <b>Adsil</b> dual regulated pressure pot. Attach a special <b>Adsil</b> spray wand /gun housing a #5 cone tip seated 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 a fluid hose. With fluid pressure alone, spray by over lapping each spray pass by 50%. Always apply in a thin and even film deposit. Back roll, if necessary. Maintain a good wet edge. Coat to natural breaks. Use grout lines as a guide during spraying so skips are avoided. In all cases, when spraying AD708, mask, cover or protect any fixtures or adjacent areas not to be top coated. Wear respiratory protection &amp; safety eye goggles.</p> <p><b>Roller</b> – (Smaller Areas) Use a short nap mohair or lambs wool roller cover with a solvent resistant core. Pick up product into the cover and gently apply. Then, finish off using a series of one directional roller strokes. Use grout lines as natural breaks. Avoid over rolling the material and avoid working back into partially 'set' material. Maintain a functional working wet line throughout the application process.</p> <p><b>Brush</b> – For very small areas, or for cutting in edges, use a foam or natural hair bristle brush.</p> <p><b>Sealing Grout</b> – One coat of <b>MicroGuard®</b> AD708 is sufficient for protecting hard tile. However, to fully seal porous lime grout or to uniformly 'wet' colored grout it is advised to first seal the grout areas with a coat of <b>MicroGuard®</b> AD702 Sealer. Allow 4 hours dry time, then, install a coat of AD708 over both the tile and grout. To restore stained grout to a uniform color use Grout Armor per label instructions. Allow over night dry, then, apply a single coat of AD708.</p>					

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<b>CLEAN UP:</b>	<p>Application tools and spray equipment should be cleaned using <b>MicroKleen™</b> Spray &amp; Equipment Cleaner (IPA) AD1-919. Flush the pump, hose, pot and gun thoroughly until all AD708 has been cleaned from the spray system. Remove the tip/ nozzle and clean thoroughly before replacing.</p> <p>Clean up drips, spills and over spray by saturating a cotton cloth with <b>MicroKleen™</b> AD1-919 and wiping the affected area before the coating dries to touch. Dispose of alcohol saturated cloths in a safe manner.</p>
<b>PRODUCT YIELD:</b>	<p><b>MicroGuard®</b> AD708 will yield up to 600+ ft<sup>2</sup> per gallon, depending on application method, tile texture and grout porosity. Actual field conditions and application methods will dictate the final product yield. In the rare instance a second coat is needed, allow 24 hours dry time between applications. Dull the gloss of the first coat by lightly sanding or by mechanical agitation. Remove sanding dust before product installation.</p>
<b>ASTM LAB TESTING:</b>	<p>ASTM D 4060 Taber Abrasion (CS-17 Wheel @ 1000 Cycles – 24.2 mg loss ASTM G 21 Fungal Growth – Zero (0) Growth ASTM D 2047 Coefficient of Friction; Dry – 0.52 Leather; 1.2 Standard Neolite</p>
<b>POST CLEANING:</b>	<p>For most general post cleaning maintenance situations and in order to ensure the best cleaning results without damaging the <b>MicroGuard®</b> AD708 film, use <b>Adsil MicroKleen™</b> PLC-1 Industrial Cleaner. For best cleaning results, dilute <b>MicroKleen™</b> PLC-1 Cleaner 1 part cleaner to 20 parts water. Wet mop the surface with the <b>MicroKleen™</b> PLC-1 solution, then, mop thoroughly with clean water or rinse and reclaim with Hydro-Force type equipment. For difficult grime removal, incorporate the use of a soft scrub brush mounted onto an extension handle. Then, rinse with clean water.</p> <p><b>Do not use harsh or abrasive alkaline cleaners for post maintenance.</b></p>
<b>IMPORTANT NOTICE:</b>	<p>If you are applying <b>MicroGuard®</b> AD708 when ambient conditions are hotter than 85° F, relative humidity is less than 50% or during drafty conditions, it <u>may</u> be desirable to post add <b>MicroKleen™</b> AD1-103 Retarder Solvent into the product after its 30 minute induction period, but before application begins. The following schedule represents a good benchmark for post adding <b>MicroKleen™</b> AD1-103 into <b>MicroGuard®</b> AD708 after induction, but before application:</p> <p>Blend the post added AD1-919 (IPA) into the inducted AD708 until the AD1-103 is evenly dispersed. This should only take about 30 seconds.</p> <ul style="list-style-type: none"> <li>• For each 1 Gallon Kit Size – post add up to 4 ounces of AD1-103</li> <li>• For each 1 Quart Kit Size – post add up to 1 ounce of AD1-103</li> </ul> <p>For cooler ambient temperature or high humidity conditions, use <b>MicroKleen™</b> AD1-919 Spray &amp; Equipment Cleaner (Isopropyl Alcohol) in place of AD1-103 Retarder Solvent. Use in the same proportions as listed above.</p>
<b>CURING INFORMATION:</b>	<p><b>MicroGuard®</b> AD708 cures by a cross-linking reaction. Whereas this protective clear topcoat dries to touch in about 1 - 2 hours, full cure is not realized for 5 - 7 days. Avoid premature cleaning of the film, exposure to chemicals or heavy abrasive use for a minimum of 5 days following application.</p> <p><b>MicroGuard®</b> AD708 <u>does not</u> cure when air, material or surface temperatures are <u>below 50° F</u>. Do not mix or apply when below 60° F.</p>
<b>Microsil™ Technology:</b>	<p><b>Adsil</b>, 1901 Mason Avenue, Suite 101, Daytona Beach, Florida 32117 USA PH: 386-274-1382    FAX: 386-274-1798    WEB: www.adsil.com</p>

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**Advanced Siloxane Technology – Preserve, Prolong, Protect**

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