

TYPE	DRY FILM THICKNESS	APPLICATION METHOD	THINNER	CLEAN UP	TACK	DRY TIME	FULL CURE
						USE	
Clear Inorganic Reacted Siloxane	WFT = 1.5 to 2 mils DFT = 10 to 15 microns	T-Bar & Pad, Spray & Pad	MicroKleen™ AD1-103 AD1-919	MicroKleen™ AD1-919	1 Hour (average @ 75° F, 50% RH)	8 Hours (light use @ 75° F, 50% RH)	5 Days (Full Cure @ 75° F, 50% RH)

**DESCRIPTION:** MicroGuard AD708QD (Quick Dry) has been formulated as a faster drying alternative to the present MicroGuard AD708 Hard Tile Clear Gloss Treatment. This is particularly important when dealing in the hospitality or restaurant sectors of business. AD708QD may be used over MicroGuard AD702 base coat.

Do not coat heavily glazed or high gloss tile floor surfaces with minimal available anchor pattern.

- **Hard Tile & Grout**
- **Epoxy Terrazzo**
- **Epoxy Agglomerate**

AD708QD may be used on properly prepared ceramic or porcelain tile surfaces, as well as epoxy terrazzo; horizontal or vertical; interior or exterior installations.

**SURFACE PREPARATION:** The surface must be clean, dry and free from dirt, oil, mildew spores, efflorescence, wax, temporary treatments or any other surface contaminate that could affect adhesion or curing of the installed film.

1. Remove any wax or temporary treatments using a commercially available stripper.
2. Use MicroKleen™ PLC-1 Industrial Cleaner & Degreaser, per label instructions. Use mechanical agitation (swing machine) with a commercial black/green pad or 'Clean-Grit' scrub brush. Then, remove residue with extraction equipment. Repeat if necessary until surface is cleaned and rinsed. Check surface pH to establish a 6 to 8 range before product installation.
3. If necessary neutralize the floor surfaces with MicroKleen™ PLC Acid Cleaner/neutralizer, per label instructions. Pick up spent acid residues thoroughly with extraction equipment. Check surface pH again.

Allow surface to dry before product application. Grout may be porous and seams can hold water for extended periods. Use fans and dehumidifiers to help with drying. Use a moisture meter to ensure grout moisture content is 20% or less.

**Magnetic Mixer Instructions:** AD708QD is a three-component material and must be properly mixed & catalyzed before use. It is packaged, in kit form, with separate (short filled) containers for Components **A**, **B** & **C**. To mix:

- Using a standard lab magnetic mixer, drop the magnetic stirrer into the Component **A** bottle and begin to mix. Slowly pour the Component **B** into the Component **A** bottle, while mixing. Place the cap loosely on the container and mix for 15 minutes. An exothermic reaction will occur; this is normal.
- Tighten the cap, set aside and allow the Component **A** & **B** to hydrolyze for 4 hours minimum, 12 hours maximum.
- Place back onto the magnetic mixer and pour the Component **C** into the fully hydrolyzed admixture of Components **A** & **B**. Place the cap loosely on the container and blend for 5 additional minutes.
- For improved flow & leveling, add MicroKleen™ AD1-103 Retarder Solvent to need. Stir for 5 more minutes.
- Remove the mixing stirrer, re-cap and seal the container and set aside for 15 minutes to chemically induct. Set aside in a location away from heat sources or direct sunlight. The usable pot life of mixed material is up to 12 hours.

**APPLICATION:** – Slip on linen booties before stepping onto the previously cleaned surface. Run a Micro-Fiber™ mop lightly wetted with MicroKleen™ AD1-919 over the tile before product installation. Mask fixtures or adjacent surfaces not to receive coating.

**CONVENTIONAL SPRAY** – Use an air compressor rated at 2.5+ CFM @ 90 PSI. Strain properly mixed product through a fine mesh cone filter into an Adsil AS1 -1 General Spray System pressure pot. Using quick connects, attach the fluid line to the spray wand /gun housing a #5 cone tip seated into the 45° connector. Set the fluid (pot) pressure gauge to 85 PSI. With fluid (pot) pressure alone, apply by over lapping each spray pass by 50%. Always apply in a thin and even film deposit. Back pad with a T-bar, if necessary, to even finish. Maintain a working wet edge. Coat to natural breaks. Use grout lines as guides so skips are avoided. Wear respirator protection & safety glasses. In most instances it is best to spray and back-pull with a T-Bar/Pad. Spray AD708QD as noted above, then, back-pull using a T-Bar and finishing pad. Use slow, continuous strokes and feather edges.

**T-Bar & Pad** – Strain mixed product through a fine mesh cone filter before use. Pour out a thin line of properly mixed and reduced AD708QD onto several rows of tile. With a pre-wetted pad, back pull the product, then, pull in a right angle cross-hatch and finish stroke in the direction of your original pull. Use continuous strokes and feather edges. Make sure grout lines are fully coated. Use the nose of the pad to dab any grout that is not uniformly coated and back pull again. Check for any skips or holidays often and while you can still reach those affected areas with the T-Bar. Use grout lines as natural breaks.

**Sealing Grout** – For color uniformity of sanded grout, various 'Acrylic Color Seals' may also be utilized to seal and renew stained grout preliminary to the MicroGuard® installation. Allow 2 to 4 hours dry time of the acrylic color seal before the MicroGuard® installation.

**CLEAN UP:**

Application tools and spray equipment should be cleaned using MicroKleen™ AD1-919 Spray & Equipment Cleaner (ISO). Flush the pot, reservoir, hose, tip and gun thoroughly until all residue has been cleaned from the spray system. Remove the tip/ nozzle and clean thoroughly before replacing.

Clean up drips, spills and over spray by wetting 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.

**PRODUCT YIELD:**

Experimental AD708QD will yield 800+ ft<sup>2</sup> per gallon kit, 200+ ft<sup>2</sup> per quart kit, depending on application method, tile texture and grout porosity. Actual field conditions and application methods will dictate the final product yield.

When a recoat becomes necessary, dull the gloss of the first installed coat of AD708QD by sanding or by mechanical agitation using 200 grit sanding screens or a maroon pad. Remove sanding dust before product installation. Wet sanding minimizes dust generation. Pick up residue with rinse and vacuum extraction equipment. If the recoat 'pulls away' from the first coat, stop product installation immediately, wipe up the fresh coating with MicroKleen AD1-919 (ISO) and continue sanding until the gloss and surface tension is more thoroughly reduced.

To recoat freshly installed AD708QD, wait a minimum of 24 hours, sand and extract as noted above.

**ASTM LAB TESTING:**

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 – 0.63 Leather; 1.17 Neolite (average of 3 test samplings)

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

**POST CLEANING:**

For most general post cleaning maintenance situations and in order to ensure the best cleaning results without damaging the AD708QD film, use Adsil MicroKleen™ PLC-20 MAINTAIN Neutral pH Cleaner. For best cleaning results, dilute MicroKleen™ PLC-20 1 part cleaner to 10 parts water. Wet mop the surface with the PLC-20 solution, then, mop thoroughly with clean water or pick up cleaning residues with extraction equipment. For difficult grime removal, incorporate the use of a swing machine and white pad or non-aggressive brush. Then, pick up residue with extraction equipment.

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

**THINNING:**

Before installing AD708QD, it may be desirable to post add MicroKleen™ AD1-103 Retarder Solvent Blend into the product after its induction period. Add solvent as needed to promote better flow and leveling properties.

**CURING INFORMATION:**

Experimental AD708QD cures by a cross-linking chemical reaction. Whereas this protective clear treatment dries to touch in about 1 hour, full cure is not realized for 5 days (75<sup>0</sup> F, 50% RH). Floors can generally be opened for light use after 8 hours. Avoid premature cleaning of the film and exposure to cleaning chemicals or heavy abrasive use for a minimum of 2 days following application.

Product does not cure when air, material or surface temperatures are below 50<sup>0</sup> F . Do not mix or apply when air or surface temperatures are below, or will be below 55<sup>0</sup> F throughout the curing cycle.

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