

TYPE	DRY FILM THICKNESS	APPLICATION METHOD	THINNER	CLEAN UP	DRY TIME		
					TACK	RECOAT	FULL CURE
Clear Inorganic Reacted Siloxane	WFT = 1.5 to 2.0 mils DFT = 8 to 12 microns	Spray, T-Bar & Pad, Short Nap Roller	MicroKleen™ AD1-103 AD1-919	MicroKleen™ AD1-919	1 Hour (average)	4 Hours (predictable recoat)	5 Days (50% RH, 75° F)

**DESCRIPTION:** MicroGuard® AD702 base coat is primarily designed as a quick recoat sealer for interior polished 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, slate and in certain instances as a sealer for ceramic or porcelain hard tile preliminary to the installation of MicroGuard® AD708 Tile Clear Gloss Treatment. AD702 is the preferred sealer for bare vertical concrete surfaces when MicroGuard® AD00 is needed for anti-graffiti mitigation.

- Interior Concrete
- Concrete Terrazzo
- Certain Hard Tile
- Slate & Décor Stone

**WHERE TO USE:** MicroGuard® AD702 is primarily designed for application onto properly prepared interior concrete & concrete terrazzo floors that have been polished up to 800; or dense 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 –

Diamond hone & polish the concrete slab or the concrete terrazzo floor to a 400 - 800 level. Extract grind slurry at each level.

Liberally apply MicroKleen™ PLC-1 Industrial Cleaner & Degreaser, diluted 1:1 with clean, hot water directly onto the surface. 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 extraction equipment. If necessary, repeat the cleaning process until all contaminants have been removed. Dispose of all rinse material properly. Read MSDS carefully.

Check pH to verify surface is between 6 (acidic) and 8 (basic) before proceeding to installation of AD702 base coat. Use pH paper and distilled water for validation. Adjust surface pH accordingly to within desired range.

Allow the surface to dry (20% moisture or less) before sealer installation! Check moisture content using a standard probe moisture meter. Conduct several readings.

### Vertical Concrete –

Most exterior vertical concrete can be sufficiently cleaned by high pressure power washing. Use soap injection where needed. Rinse thoroughly and allow surface to air dry (20% moisture or less).

If powder efflorescence is present, flush concrete with MicroKleen™ PLC-Acid Cleaner/Neutralizer, per published instructions, then resume pressure washing. Read MSDS carefully.

**MS5-1 Mixing Instructions:** MicroGuard® AD702 base coat is a three-component product and must be properly mixed before use. AD702 is packaged, in gallon or quart kit form, as short-filled **A**, **B** & **C** components. For proper mixing:

- 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.
- Using the MS5-1 Adsil Product Mixer with Timer, blend the components together for 20 minutes. Always cover the bucket with a 'V' cut notched lid during mixing.
- Next, pour the **C** component liquid into the admixture of the **A** & **B** components. Mix for an additional 15 minutes. You will notice an 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 induct ("sweat in"). Set aside away from direct sunlight or flame & heat sources.
- For best application results, apply the properly mixed AD702 within 2 hours of chemical induction; addition of MicroKleen™ Retarder Solvent will aid with flow and leveling. The pot life of mixed AD702 is up to 4 hours. Elevated ambient temperature shortens usable pot life.

### Magnetic Mixer Instructions:

- Using a standard lab magnetic mixer, pour the Component **B** into the Component **A** bottle. Drop in the magnetic stirrer, place the cap loosely on the container and mix for 20 minutes.
- Pour the Component **C** into the admixture of Components **A** & **B**. Cover and blend for 15 additional minutes. An exothermic heat reaction will occur. This is normal.
- Remove the mixing stirrer, re-cap and seal the container and set aside for 30 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 4 hours.

**APPLICATION:** Two application methods are preferred; application by spray or by T-Bar & Pad methods.

**CONVENTIONAL SPRAY** – For interior floor areas, use an AS1-1 Adsil dual regulated pressure pot and spray gun/wand housing a #10 cone tip mounted in the 45<sup>0</sup> connector. Use an air compressor that can deliver at least 3 CFM @ 90 PSI. Pour the properly mixed and inducted AD702 through a strainer into the pressure pot. Set the fluid (pot) pressure gauge at 85 PSI. No air hose to the gun is needed, only a fluid hose. Purge product to the tip until hose is free from air. 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 or top coated in 4 hours.

**T-BAR & PAD** – In most instances it may be best to spray and back-pull with a T-Bar/Pad. Spray AD702 base coat as noted above, then, back-pull using a T-Bar and quality pad. Use long, continuous strokes and feather edges.

**ROLLER** – Use a top-quality, short nap 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 working wet line.

**Note:** MicroGuard<sup>®</sup> AD702 cures by a cross-linking reaction and can take 5 days for full cure (75<sup>0</sup> F & 50% RH). Curing of the film does not occur at ambient or surface temperatures below 50<sup>0</sup> Fahrenheit.

**CLEAN UP:** Application tools and spray equipment should be cleaned using MicroKleen<sup>™</sup> AD1-919 Spray & Equipment Cleaner (IPA – Isopropyl Alcohol). Flush the pot, reservoir, 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<sup>™</sup> AD1-919 before MicroGuard<sup>®</sup> AD702 dries to touch. Dispose of alcohol saturated cloths in a safe manner.

**PRODUCT YIELD:** The square foot per gallon yield of AD702 base coat varies with substrate porosity. When treating 400 to 800 level diamond-polished and densified concrete or hard tile the yield can be as high as 800+ ft<sup>2</sup> per gallon.

When treating porous, brushed or pitted concrete, the yield can range from 400 to 600 ft<sup>2</sup> per gallon. Multiple coats of AD702 may be needed to seal porous concrete until uniform gloss holdout is achieved and before installation of MicroGuard<sup>®</sup> AD703 Concrete Clear Treatment.

**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<sup>®</sup> 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 general post cleaning maintenance situations and in order to ensure the best cleaning results without damaging the MicroGuard<sup>®</sup> Clear Treatment System, use MicroKleen<sup>™</sup> PLC-20 MAINTAIN pH Neutral Cleaner. For best cleaning results, dilute MicroKleen<sup>™</sup> PLC-20 Cleaner 1 part cleaner to 10 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 or swing machine. Liberally wet-mop the surface with dilute MicroKleen<sup>™</sup> PLC-20, allow the cleaner to "work" for 1 to 2 minutes, then, re-mop with clean water or pick up with extraction equipment.

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

**THINNING:** Before applying MicroGuard<sup>®</sup> AD702 it may be desirable to add MicroKleen<sup>™</sup> AD1-103 Retarder Solvent into the product after its chemical induction ("sweat in") period. Add as needed until good flow and leveling properties are achieved.

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

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**Advanced Siloxane Technology – Extreme Performance Product**

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