

MICROGUARD®

Anti-Graffiti

TECHNICAL DATA SHEET TS-52

MicroGuard® Anti-Graffiti Clear Gloss Surface Treatment AD00

| TYPE | FILM THICKNESS | APPLICATION METHOD | THINNERS | CLEAN UP | TACK | DRY TIME | |
|----------------------------------|--|---|--------------------------------|---------------------|--------------------------------|-------------------------------------|----------------------------------|
| | | | | | | USE | CURED |
| Clear Inorganic Reacted Siloxane | WFT = 1 to 1.5 mils DFT = 8 to 12 microns | Airless, Conventional, LVLP or HVLP Spray, Bristle Brush, Mohair Roller | MicroKleen™ AD1-103 AD1-919 | MicroKleen™ AD1-919 | 2 hours (on average) | 5 days (graffiti removal) | 5 - 7 days (full cure) |

DESCRIPTION: MicroGuard® AD00 is designed to create an impenetrable clear, gloss surface veneer, which acts as an effective barrier for the removal of most common forms of graffiti. The AD00 film forms a layer of micro glass-like crystals that graffiti does not readily penetrate or adhere to the hydrophobic film. The subsequent removal of graffiti is accomplished with much less effort and significantly less expense. MicroGuard® AD00 is a non-sacrificial anti-graffiti coating and is highly resistant to graffiti tagging, such as aerosol paint, permanent marker or ink. Effective with most commercially available graffiti removers. MicroGuard® AD00 is also ideal for restoring faded or oxidized paint surfaces.

- **Dense & Sealed Concrete**
- **Painted Surfaces**
- **Non-Ferrous Metals**
- **Fiberglass & Gel Coat**
- **Hard Tile & Grout**

WHERE TO USE: AD00 may be used on many painted surfaces, bathroom walls & stalls, elevator walls & doors, city or park benches, subway walls, powder coated metal siding, highway sound barriers, bridges or overpasses, etc;

SURFACE PREPARATION: The surface to be coated must be clean, dry and free from dirt, oily grime, mildew, heavy oxidation and graffiti. Power washing, steam cleaning and/or the use of MicroKleen™ Industrial Cleaner & Degreaser PLC-1, per label instructions, are common methods for most contaminate removal. Allow surfaces to fully dry.

In many instances, because of the presence of existing graffiti, it may be advantageous to re-paint the surface with conventional types of paints and/or coatings, which are recommended for the specific substrate, before installing MicroGuard® AD00. In these cases, allow the paint of choice to fully cure, then, treat the newly painted surface with AD00 Clear Treatment. Glossy paints or surfaces will need to be scarified with 220 grit sandpaper.

Graffiti Removal - Common graffiti can be lifted from the coated surface with most commercially available graffiti removers. Allow AD00 to cure for 5 days before attempting graffiti removal.

MIXING INSTRUCTIONS: MicroGuard® AD00 is a three-component material and must be properly mixed for curing to occur. This product is packaged, in kit form, with separate containers for the A,B & C components.

For proper mixing of 1 Gallon Kit batch sizes or larger:

- Pour the Component A liquid into a clean, white or clear HDPE plastic bucket, only. Then, pour the Component B liquid into the Component A.
- Using the Adsil Product Mixer, blend the two components for 15 minutes. Avoid striking the side of the pail with the paddle. You will notice a moderate heat reaction during blending. This is normal. Keep bucket covered with a notched lid during mixing.
- Next, pour the Component C liquid into the admixture of Components A & B. Blend for 15 additional minutes.
- Remove and clean the mixer blade/shaft. Cover the bucket with a full lid and set aside away from sunlight or heat sources for 12 hours to chemically induct ("sweat in"). After a minimum of 12 hours induction time, apply as directed. The usable pot life of mixed material is up to 72 hours, depending on ambient conditions.

NOTE: For best results, it is desirable to mix this product the night before actual application begins.

For proper mixing of 1 Quart Kit batch sizes:

- Using a standard lab magnetic mixer, pour the Component A & B liquid into a PET or HDPE plastic container. Drop in the magnetic peanut, cover the container and mix for 15 minutes.
- Pour the Component C liquid into the admixture of Components A & B. Cover the container and blend for 15 additional minutes.
- Remove the mixing peanut, cover the container and set container aside for 12 hours 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 72 hours, depending on ambient conditions.

CURING INFORMATION: MicroGuard® AD00 cures by a cross-linking reaction. Whereas the product will dry to touch in about 2 hours, full cure of the film is not realized for 5 to 7 days. Do Not attempt graffiti removal with harsh chemicals or solvents for at least 5 days following product installation. Curing of the film does not occur at ambient or surface temperatures below 500 F. Do Not Apply AD00 when ambient or surface temperatures are, or will be, below 550 F.

APPLICATION: MicroGuard® AD00 is best applied using spray techniques.

Airless Spray – Mount a glycerin (liquid filled) pressure gauge between the pump and fluid hose so that pump pressure can be monitored. Seat a 511/611 to 513/613 reverse-clean tip into the gun/nozzle housing. Run the lowest pump pressure possible, while still maintaining a good fan pattern, free from "tailing". Typically, this is between 500 - 650 psi. Spray in a cross-hatch pattern in order to avoid skips and holidays. Over lap each spray pass by 50%. Always apply in a thin and even film deposit and never exceed 1.5 mils wet film thickness, per coat. Always mask, cover and/or protect adjacent surfaces not to be coated. Move automobiles and vehicles away from the spray area. Check wind conditions during application to determine direction of over spray drift.

Conventional Spray – Select an air compressor that can deliver a minimum of 3 CFM @ 90 PSI. Use a dual regulated pressure pot with a good production gun (Binks, Kremlin, Devilbiss) Set the fluid (pot) gauge at 10 to 12 PSI and the air pressure gauge at 15 to 20 PSI (working pressure). Close down the fluid needle adjustment screw, on the back of the gun, to its tightest position, then, turn the adjustment screw 2 turns counter clockwise to allow for controlled material feed to the tip. Check the spray pattern and make minor adjustments to the fluid & air needles, as needed.

Roller – Flat surfaces may be coated using a good quality mohair or lambs wool roller cover. Always use the shortest nap cover possible for the surface texture being coated. Avoid over rolling this product. Finish stroke in one direction. Spray and back rolling is a common and often recommended installation process.

Brush – Small surface areas can be coated using a natural hair bristle brush. Apply AD00 by using a series of one directional brush strokes. Flow the product onto the surface in an ultra-thin film deposit. Do not over brush.

Caution – Do not allow any water contact on freshly installed film, e.g. rain, dew, fog, sprinklers, etc; for a minimum of 4 hours following product installation; 6 to 8 hours when air or surface temperatures are cooler than 600 F. For exterior work, check area Doppler forecasts and hygrometer readings to calculate dew point.

CLEAN UP: Application tools and spray equipment should be cleaned using MicroKleen™ Spray & Equipment Cleaner (IPA) AD1-919. Flush tools, pump, hose, pressure pot, etc; thoroughly until the AD00 residue has been cleaned from the equipment.

Clean up drips or over spray using a cloth saturated with MicroKleen™ AD1-919 before the AD00 dries to touch. Dispose of alcohol saturated cloths in a safe manner.

PRODUCT YIELD: MicroGuard® AD00 yields approximately 600 and up to 800 ft²/gal over dense, non-porous or sealed surfaces and 350 and up to 550 ft²/gal over more textured or absorbent surfaces.

Actual field conditions, surface texture and method of application will dictate final product yield. Heavily textured or porous surfaces, such as cinder block or porous brick, must be filled with quality block filler and painted before installation of MicroGuard® AD00.

Bare Masonry Type Surfaces – such as tilt-up walls, poured in place walls, fired brick, concrete columns, concrete bridge overpass panels, concrete sound barrier walls or open, unglazed decorative stone will need to be sealed as follows before the installation of AD00:

MicroGuard® AD702 Clear Concrete Waterproofing Sealer

Standard CMU Block & Mortar Walls – will need to be filled and sealed as follows:

Heavy Bodied Acrylic Block Filler followed by a high quality satin acrylic paint.

ASTM LAB TESTING:

ASTM D 4060 Tabor Abrasion (CS-17 Wheel @ 1000 Cycles) – 20.5 mg loss

ASTM G 21 Fungal Growth – Zero (0) Growth

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

THINNING: If you are applying MicroGuard® AD00 when ambient conditions are hotter than 850 F, when relative humidity is less than 50% or during windy conditions, it may be desirable to post add MicroKleen™ AD1-103 Retarder Solvent into the product after its 12 hour induction ("sweat in") period. Add as needed.

In cool ambient or surface environments, thin using MicroKleen™ AD1-919 Isopropyl Alcohol. Add as needed.

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