



TECHNICAL DATA SHEET TS-52

MicroGuard® Clear Masonry Water & Stain Repellent AD605

TYPE	SEALER NATURE	APPLICATION METHOD	THINNERS	CLEAN UP	DRY TIME		
					TACK	RECOAT	USE
Fluoro-Chemical Solution	Water & Oil Repelling Penetrant	Low Pressure Spray - Fan Nozzle or 1" Nap Roller	Do Not Thin	Soap & Water	2 - 4 Hours	3 - 5 Minutes (Wet-on-Wet)	4 - 6 Hours

DESCRIPTION: MicroGuard® AD605 is a single component, hydrophobic, stain resisting penetrant that effectively seals above grade concrete & masonry type surfaces. It is equally suitable for interior or exterior surfaces, horizontal or vertical installations. This deeply penetrating sealer should not cause a darkening of the masonry substrate. It is 'breathable', so vapor can pass out of the substrate and through the sealer, but ingress surface water, debris and organic stains are retarded from penetration into the surface. MicroGuard® AD605 helps resist staining caused by motor oil, hydraulic fluids, and most food & beverage related products. Clean up any such stain causing materials as soon as possible to avoid long-term exposure to and superficial staining of the surface. AD605 is VOC compliant in all U.S. air quality districts.

- **Horizontal or Vertical Masonry**
- **Decks, Patios or Drive Ways**
- **Decorative Brick Pavers**
- **Exposed Aggregate & Stone**
- **Tilt Up or Pre-Cast Walls**
- **Bare Brick, CMU & Split-Face Block**
- **Porous Lime Grout**

WHERE TO USE: Virtually any bare horizontal or vertical masonry type surface where resistance to water & oil penetration, organic staining & mold growth resistance is desired; suitable for northern or southern climate exposures. Do not use over painted surfaces. Not suitable for below grade water exposure. Will not bridge cracks.

SURFACE PREPARATION: Allow freshly poured concrete to cure a minimum of 28 days before installing AD605. Existing concrete must be structurally sound and free from dirt, oil, grease, grime, mold, laitance, efflorescence, membrane curing compounds or other contamination before product installation. Deteriorated concrete must be repaired with an appropriate surfacing material, per specific product specification. Cracks must be routed and filled with an appropriate caulk or sealant. Allow repair materials to fully cure. Pre-wet surface. Clean and remove dirt, oil, grease & grime contamination by flooding the surface with MicroKleen™ PLC-1 Cleaner & Degreaser mixed 1 part clean, hot water with 1 part PLC-1. Using mechanical agitation, work the surface until contaminants are dislodged. Pressure wash or pick up residues using Extraction Equipment. Remove surface laitance or powder efflorescence using MicroKleen™ PLC-35 Phosphoric Acid Etch & Clean mixed 1 part PLC-35 into 8 parts water. Allow solution to work 10 minutes. Neutralize acid residue using 5% ammonia mixed with 95% water then, pressure wash or pick up residue with Extraction Equipment. Crystalline efflorescence should be removed using dry mechanical agitation or abrasive blasting. Allow surface to dry before sealer installation. Membrane curing compounds should be removed by chemical strippers or by abrasive blast methods.

CAUTION: Do not apply MicroGuard® AD605 when ambient or surface temperatures are below 40° F or above 100° F. Do not apply if precipitation, dew or fog conditions are expected within 4 hours of product installation. Do not apply if rain has fallen within the past 12 hours or if the surface moisture percent is above 20% as tested with a standard probe moisture meter. For exterior work, check area Doppler forecasts for rain cells and turn off automatic sprinkler systems before proceeding. Do not apply over painted surfaces. Do not atomize product during installation.

APPLICATION: Thoroughly stir or mechanically agitate MicroGuard® AD605 before use. Product is clear in the bucket. Mask, tarp or protect any surfaces not to receive sealer. Protect plants from overspray. Read MSDS before proceeding. Horizontal Surfaces - Apply by means of low pressure pump-up sprayer (non-atomizing) housing a wet-fan spray nozzle or by 1" nap roller. Spray in a cross-hatch application pattern. Any puddling of product after 3 minutes penetration time should be back rolled or broomed into adjacent areas. On extremely porous surfaces, such as brick pavers or brushed concrete, re-saturate a second time, wet-on-wet. Always apply the second coat wet-on-wet; generally about 3 to 5 minutes after the first coat. Less material will be required for the second wet-on-wet application. Do not allow puddling of product on the surface. Always back roll or broom excess, un-penetrated product into adjacent area. Vertical Surfaces - Thoroughly stir or mechanically agitate until evenly mixed. Best results will occur by using a low pressure pump-up sprayer (non-atomizing) housing a wet-fan spray nozzle. Apply in a cross-hatch spray pattern. Always start coating from the bottom and work up. Flood coat the surface allowing the material to run down 6 to 8 inches before being absorbed into the substrate. Back roll as necessary to ensure products' full penetration of the surface. NOTE: MicroGuard® AD605 is an impregnating, penetrant type sealer. Over application may cause slow dry and a slight darkening of the surface.



PRODUCT YIELD:

	Ft ² /Gallon - Horizontal
Brick Pavers	125 – 150
Brushed Concrete	125 – 175
Smooth Concrete	200 – 250
Open Stone	225 – 275
Porous Lime Grout	Varies
	Ft ² /Gallon – Vertical
CMU Block & Mortar	150 – 200
Tilt Up Concrete	200 – 275
Brick & Mortar	150 – 200
Split Faced Block	100 – 150
Open Stone	225 – 275

These yields should be considered good benchmark standards. Actual yields are determined by surface porosity. Always test product on each type of surface to determine suitability and results before overall application.

PRECAUTIONS: Read MSDS for detailed safety instructions before using product. Wear nitrile gloves and protective eye wear. Wear a properly fitted respirator when spraying. Avoid prolonged contact with skin. Wash hands before meals and at end of shift. Avoid all contact with food products. Keep from freezing. Product is rendered useless by freezing.

CLEAN UP: Installation equipment and product overspray should be cleaned immediately using warm, soapy water followed by flushing with clean water. If any overspray has dried to touch, use hot water and a citric based cleaner. Product will leave a residue on non-porous surfaces, such as glass, metals and painted surfaces so product overspray or roller spray should be cleaned off immediately.

TECHNICAL DATA:

Service Life Expectancy	3 to 4 years to recoat, depending on exposure or cleaning.
Cleaning Maintenance	General – pressure wash up to 1,000 psi. Topical Stains – MicroKleen PLC-1 reduced 1:20 with water. Scrub with soft brush and rinse with water.
Weight per Gallon	8.36 pounds
Shelf Life	1 year in unopened container.
Freeze Point	320 F. (00 C.)
Flash Point	2120 F. (1000 C.)
VOC Compliant	50 grams per liter (Low Solids Method)
U.S. Regulations	Federal EPA; VOC maximum – 600 g/L CARB SCM; VOC maximum – 120 g/L SCAQMD; VOC maximum – 120 g/L NEOTC; VOC maximum – 120 g/L

Note: As treated surfaces are fully breathable, trapped moisture that can cause mold growth, blushing of a sealer and freeze-thaw damage to the substrate is mitigated.

STORAGE: Store MicroGuard® AD605 in a cool, dry area and away from heat sources; between 450 and 850 F. Keep from freezing as this will destroy the product. Shelf life is one year when properly stored in unopened containers.

QUALITY ASSURANCE: Adsil warrants that its MicroGuard® AD605 is manufactured free from defect and conforms to its rigid manufacturing control standards. All recommendations, statements, tests and technical data are believed to be accurate but should not be construed as a warranty or guarantee of any kind, expressed or implied, including but not limited to, an implied warranty of merchantability or fitness for a particular purpose.

Corporate Headquarters
1901 Mason Ave, Suite 101
Daytona Beach, FL 32117

Toll Free: 800.549.2539
Phone: 386.274.1382
Fax: 386.274.1798
www.adsil.com