Product Information

AG1000 Anti-Graffiti Coating

Non-Sacrificial, Single Component Anti-Graffiti Coating

Description

BDC Epoxy System's AG1000 is a clear, satin finish, non-sacrificial, one-component, anti-graffiti protective coating.

This single component coating provides excellent cleanability, UV resistance, and long service life. It is easily applied using brush, roller, or airless spray equipment.

Uses

BDC's AG1000 Anti-Graffiti Coating is an excellent all-around coating that provides graffiti protection over a variety of substrates. It is best applied over a rough surface and can be used to protect porous substrates such as brick, cinder block, wood, fiberglass or concrete. It can also be used to protect rougher, non-porous substrates such as painted stucco and block walls. Not recommended for use over plastic or metal surfaces or smooth, painted or non-painted surfaces.

Advantages

- **SCAQMD VOC Compliant (VOC < 100 g/l)**
- **Single Component Application**
- **ASTM D7089 Cleanability Level I**
- **Graffiti Easily Removed by simply using soap, water, and a non-abrasive scrub brush**
- **Withstands 10+ Graffiti Removal Events**
- **Non-regulated for DOT, Ocean, or Air Transport**
- **Excellent Color and Gloss Retention**
- **Great U.V. Resistance**
- **Low Odor, Fast Dry Formula**

Coverage

Airless Sprayer: 1 coat @ ~160 sq ft per gallon
Roller/Brush: 1 coat @ ~160 sq ft per gallon or 2 coats @ ~250-275 sq ft per gallon
(Coverage will vary with the substrate texture and porosity of the surface)

Colors

Clear

Packaging

1-gallon pails and 5-gallon pails

Inspection

Substrate to be coated must be clean, dry, and free of grease, loose paint, oil, dust, release agents, laitance, frost, or any foreign material that will prevent proper adhesion.

Failing to adhere to these strict guidelines can result in product delamination, discoloration, blistering, or altogether failure of the coating system. Testing is the responsibility of the applicator.

Surface Preparation

Proper surface preparation is best achieved by pressure washing the surface prior to application, ensuring surface is clean of all debris including loose paint, and allowing surface to *thoroughly dry* prior to coating.

Over Fresh Paint: Make sure paint is a flat or egg-shell finish. Allow paint to cure completely before application. Waiting > 72 hrs is preferred to ensure best adhesion. If possible, use high-quality acrylic or latex paints to ensure the paint does not discolor when top coated with AG1000.

Existing hard or glossy coatings must be dulled by abrading the surface and wiping clean.

If over coating BDC AG1000 after prolonged weathering or aging, ensure the coating is fully cleaned to remove all surface contamination such as dust, grease, oil, salt crystals, traffic fumes, etc. before application of a further coat of BDC AG1000.

A test area is recommended to be done prior to application to ensure adhesion, especially when coating over pre-existing coated or painted surfaces. BDC bears no responsibility for failures due to any of the above conditions.

Thinning

Do not thin for normal applications.
Metal Surfaces: Thinning with up to 10% PCBTF can help eliminate orange peel and give a better film. Still, adhesion can be an issue over metal. Test on surface prior to use.

Mixing

AG1000 is a single-component coating. As settling may occur in the pail, it is necessary to mix by an air powered agitator or slow speed drill with helix mixing attachment (200 - 400 rpm) 1-2 minutes, to ensure an even consistency is obtained without air in suspension.

Possible Film in Container

Due to its moisture curing nature, AG1000 may develop a film at the top of the container. Do not worry, it is a perfectly natural occurrence. If a cured film exists, scape and remove the film prior to mixing/using the remaining product.

Application

Airless Sprayer (preferred): It is recommended that AG1000 is applied using an Airless Sprayer. Apply an even coat using a 6–8-inch fan pattern maintaining distance of 12 inches between the gun and the surface. A 311 tip is preferred, or a 315 tip is acceptable as well. It is best to work in sections by outlining the area first and filling in using the fan sprayer. Stop and start the spray with each pass of the sprayer to avoid overspraying and wasting of material. A 50% overlap should be used with each pass to ensure complete coverage. It is very important to not rush the application to ensure an even coating is on all surfaces without missing any sections. The material should be applied in one coat at approximately 160 sq ft per gallon (10 mils thick).

Brush or Roller: Brushes and Rollers are also suitable methods of application. A 3/8" (block wall), or 1/2" (rough/stucco surface) nap, solvent-resistant, non-shedding roller cover is recommended. If applying via this method, the material should be applied in two or more medium coats, cross rolling to ensure even coverage. Each coat should be approximately 250-275 sq ft per gallon. The material dries quickly, and the second coat should be applied within 1-2 hrs after initial application.

AG1000 can also be applied by rolling in a single coat at ~160 sq ft per gallon. The applicator must take great care to cross-roll the material while wet to ensure material has been applied evenly, without puddling or allowing for any uncoated low-spots.

Partial Containers: AG1000 is not recommended for partial container storage. If work must stop after only a portion of a container of AG1000 has been used, seal container to minimize air and moisture contact with the coating by covering the surface of the coating with a sheet of polyethylene film, then reseal the container to be airtight. If a cured film exists on the top of the container, use a scraper or utility knife to cut the cured film away from the wall of the container and dispose of the cured film prior to mixing. It is a perfectly natural occurrence due to the moisture curing nature of the product.

Drying Time

General Dry-to-Touch Time: 1 hr *
Cured for Graffiti Protection: 24 hrs *
Full cure: 7 days *
**** All times are based on average temperature of 77˚F & 50% humidity. Cooler/drier environment will increase drying time. Warmer/humid environment will decrease.***

AG1000 Anti-Graffiti Coating can be re-coated as soon as the surface is dry to touch.

Graffiti Removal:

Graffiti should be removed as soon as possible. The longer it sits on the surface, the more effort it can take to remove. It is easiest to fully remove graffiti within a few days of the graffiti event.

Graffiti can easily be removed with water and a light scrubbing with a non-abrasive scrubber. Do not clean graffiti in too aggressive a manner as it is unnecessary and may damage the coating.

Manually (preferred): To remove graffiti, first wet the surface with water, wait 10 seconds, then lightly scrub the surface using a wet, non-abrasive pad (such as Scotch-Brite Dobie) or soft bristle scrub brush. Biodegradable dish soap may also be added to make cleanup even easier. Immediately rinse off with cold or warm water upon completion.

Pressure washing: For larger areas, pressure washing may be done taking care not to be too aggressive with the surface. First, wet the surface with water to activate the coating, then pressure wash with cold water at a maximum of 1200 psi. It is imperative not to be too aggressive with the pressure washer to ensure continued adhesion of the coating.

Stubborn areas: In the instance that graffiti has been left on for a longer time (typically, greater than 10 days) or is simply stubborn to remove, soap, warm water, and a light to medium-stiff scrub brush is the best option. Allowing the soap to saturate the surface will best help for removal. Do not use too aggressive of a scrubber.

Painting Over

The AG 1000 will repel all paints and must be removed completely prior to painting over to avoid adhesion issues. AG1000 can be removed mechanically by sanding, grinding, or sandblasting the surface.

Disposal

The residue resulting from cleaning a hazardous substance may be considered hazardous waste. Please dispose of hazardous waste in accordance with all local, state, and federal laws.)

Limitations

- ***Do not apply with surface temperatures below 45˚F or above 130˚F.***
- ***Not recommended for use over plastic surfaces.***
- ***Do not apply too thin otherwise strength of coating can be compromised***
- ***This product is intended for use by professional applicators only.***
- ***Concrete must be cured for a minimum of 28 days.***
- ***Do not apply unless temperature is 5° above the dew point or if rain is expected within 24 hours.***
- ***Do not apply over non-fully cured paint***
- ***Do not apply on damp or moist surface as product will***

whiten and may cause delamination.

- ***Do not use aggressive cleaning techniques***
- ***Always test a small area to ensure the compatibility and effectiveness.***
- ***Prevent runs, sags, drips, spills, etc.***
- ***When working with AG1000 in high humidity and/or high temperature environments, it is recommended to use a pail lid adapter fitted with an agitator. This will prevent the product from skinning over or curing in the pail during application.***

Personal Protection

When applying in confined spaces ensure adequate ventilation and/or respiratory equipment is available. If spraying, a cartridge type respirator, face mask, goggles, and gloves are highly recommended. See Safety Data Sheet for further information.

Clean Up

Clean up spills and tools immediately using Acetone, Naphtha or Mineral Spirits. Clean spray equipment before and after use, or prior to any prolonged periods of downtime. Do not allow material to remain in hoses, gun, or spray equipment. Cured material can only be removed mechanically.

Shelf Life

Shelf Life of this material is 6 months from the date of manufacture. (See batch number for manufactured date). Always inspect for film inside of can, cut out, and discard if present.

Warranty

BDC Epoxy Systems, Inc. guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. BDC makes no other warranty, expressed or implied, and all warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product. Manufacturer shall not be liable for material used outside of its shelf life. For product dating, please refer to the batch number on the product or contact BDC.

Technical Data

	Test Method	Results
Shelf Life		6 months with examination
Wet Film Thickness per Coat:		6-12 mils
Dry Film Thickness per Coat	ASTM D-3363	6 - 12 mils
Tensile Strength	ASTM D-412	100 psi (7 kg/cm2)
Elongation at Break	ASTM D-412	100%
Gloss Level		Satin to Semi-Gloss
Volume Solids	ASTM D-2697	94% by volume
VOC	ASTM D 2369-81	<100 g/l
Recoat Time		45 minutes (min) - 3 hrs (max)
Durometer Hardness	ASTM D-2240, Shore A	33
Viscosity at 75 F(24 C) 50% RH		2,200 cps +/- 1,000
Weight		8.25 lbs/gal
Flash Point		192°F (88°C)