

# GRAFFITI SHIELD®

## GRAFFITI PROOF CLEAR SEALER

### Technical Data & Application Instructions

#### PRODUCT DESCRIPTION

GRAFFITI SHIELD is a two-component, urethane-modified acrylic coating and cleaner system designed to allow easy removal of graffiti and other stains from treated surfaces. It is highly resistant to most types of aerosol spray paint and permanent markers, as well as dirt, soot, pollution and other types of airborne contaminants.

GRAFFITI SHIELD'S water-based, cross-linked technology creates an attractive, low luster finish that is easy to apply and resists repeated cleaning with no visible effects. The easy to apply, non-yellowing urethane resins impart a durable finish that provides long-term water repellency, dirt and graffiti resistance, and weather protection.

#### BASIC USES

GRAFFITI SHIELD was specifically developed to seal surfaces with a durable, chemical resistant finish that facilitates graffiti removal. It can be applied over previously sealed as well as unsealed surfaces. GRAFFITI SHIELD is effective over most properly prepared substrates, such as concrete, concrete block, exposed aggregate, stucco, brick, stone, metal, wood siding, existing paint etc. Since it is a "breather" it will allow moisture to escape from the building interior, while providing excellent water-repellent characteristics on the exterior.

#### WARRANTY

GRAFFITI SHIELD is covered by a 10-Year Limited Warranty, issued to the Building Owner. This guarantees that the applied system will remain effective in facilitating graffiti removal throughout the warranty period. Reapplication may be necessary after repeated graffiti removal and scrubbing.

#### TYPICAL PROPERTIES

- Solids by Weight:**  
33% ( $\pm 2$ ) [ASTM D2365]
- Solids by Volume:**  
31% ( $\pm 2$ ) [ASTM D5201]
- Weight per Gallon:**  
8.6 lbs ( $\pm .3$ ) (3.9 kgs) [ASTM D2196]
- Viscosity:**  
300 to 900 cps [ASTM D2196]
- Tensile Strength:**  
4,000 psi ( $\pm 500$  psi) (27.6 MPa) [ASTM D412]
- Elongation:**  
50% ( $\pm 5\%$ )
- Hardness:**  
H pencil [ASTM D3363]
- Gloss:**  
>40 @ 60° Gardner [ASTM D523]
- Sweat-In/Activation Time:**  
15 minutes @ 75°F (24°C)
- Pot Life:**  
3 to 4 hours @ 75°F (24°C) once activated
- Cure Time Prior to Service:**  
48 to 72 hours depending on temp./humidity
- VOC Content:**  
98 grams/liter [PA Method 24]
- Permeance:**  
2 to 3 perms @ 2 to 2.5 dry mils (51 to 64 microns)
- Grffiti Resistance:**  
No effect after 200 scrubs w/MEK [ASTM D6578]

#### ADVANTAGES

**Safe:** GRAFFITI SHIELD is a water-based product with low odor. It meets all Federal, state and local VOC regulations.

**Easy To Use:** GRAFFITI SHIELD applies easily using a brush, roller or airless spray equipment. Clean-up with soap and water.

**Chemical and Abrasion Resistant:** The tough, cross-linked surface of GRAFFITI SHIELD resists 200+ scrubs with cleaning solvent, with no visible sign of wear.

## **SURFACE PREPARATION**

All surfaces must be structurally sound, clean, dry fully cured, and free of dirt, dust, oil, curing or form release agents, efflorescence, scale or other contaminants that could inhibit optimum adhesion. Existing paints and coatings must be well adhered. Any loose, cracked or peeling paint or coating must be completely removed.

## **MIXING INSTRUCTIONS**

Pour pre-measured unit of activator into short-filled container of GRAFFITI SHIELD. Power mix for a minimum of two minutes (five minutes if mixing by hand) to thoroughly disperse the activator. Allow blended material to activate 15 minutes prior to application. Once activated, useable pot life is approximately 4 hours at 75°F (24°C). Materials applied after the 4-hour pot life will not develop sufficient physical properties to resist graffiti removal, and must be discarded. Do not thin the material.

## **APPLICATION**

**GRAFFITI SHIELD** can be applied over any new or existing sound, vertical surface that is free of graffiti. Brush or roller can be used for small areas or areas that are not conducive to spray application. Most applications will require 2 coats of **GRAFFITI SHIELD**, applied at the average total rate of 200 to 250 sq. ft. per gallon (4.9 to 6.1 l/m<sup>2</sup>).

Over porous, unsealed surfaces, apply a single coat of UNITED'S **Acrysheen** to seal the surface prior to application of **GRAFFITI SHIELD**. Application rate of the **GRAFFITI SHIELD** will vary with the density and porosity of the substrate. Following are recommended application rates over typical substrates:

**Concrete:** 200 to 250 sq. ft. per gallon (4.9 to 6.1 m<sup>2</sup>/l)

**Concrete Block:** 100 to 125 sq. ft. per gallon (2.5 to 3.0 m<sup>2</sup>/l)

**Stucco:** 150 to 200 sq. ft. per gallon (3.6 to 4.9 m<sup>2</sup>/l)

**Brick:** 150 to 200 sq. ft. per gallon (3.6 to 4.9 m<sup>2</sup>/l)

**Wood Siding:** 150 to 200 sq. ft. per gallon (3.6 to 4.9 m<sup>2</sup>/l)

**Metal:** 350 to 400 sq. ft. per gallon (8.5 to 9.8 m<sup>2</sup>/l)

For factory finished or other dense surfaces, a minimum of two coats applied at the maximum rate of 350 sq. ft. per gallon (8.5 m<sup>2</sup>/l) each are required to achieve proper dry film thickness. When applying to dense surfaces, fine-finish spray equipment such as an air-assisted airless or HVLP spray equipment (high-volume, low-pressure) is recommended.

A minimum dry film thickness of 2 to 3 mils (51 to 76 microns) is required to achieve graffiti resistance. It is the applicators responsibility to assure that the minimum dry film thickness is achieved regardless of the application method used or application rate.

UNITED COATINGS recommends that a sample test area be applied prior to any general application of the material. **GRAFFITI SHIELD** may bring out the natural color of the particular concrete, masonry or other substrate being sealed, resulting in a darkened appearance, as if wetted. Apply the test area on an inconspicuous area of the actual surface to determine the optimum coverage rate to achieve uniform coverage and sheen, as well as to determine the suitability of the application technique.

## **CLEANER**

**GRAFFITI SHIELD Cleaner** is a VOC compliant blend of unique solvents, especially formulated for the removal of graffiti and other stains from surfaces sealed with **GRAFFITI SHIELD**. **GRAFFITI SHIELD Cleaner** is designed for use with UNITED'S **GRAFFITI SHIELD** Coating System, although it is also effective on a variety of other substrates including glass, metal, concrete and masonry. A small test is always recommended on an inconspicuous area to ensure effective removal and satisfactory results.

## **GRAFFITI REMOVAL**

On most smooth surfaces, graffiti can be removed using **GRAFFITI SHIELD Cleaner** and a rag. Highly textured surfaces may require a soft brush. In either case, some agitation will be required. Over stubborn areas, allow the cleaning solution to penetrate for a few minutes to break down the paint. Apply liberally and hold the rag in place over the affected area to prevent evaporation of the cleaning solution.

After the graffiti has been removed, the affected area should appear virtually unchanged from what it had been previously. **GRAFFITI SHIELD** can be reapplied as necessary after cleaning.

Some ink marker stains may require the use of a more aggressive solvent such as Methyl Ethel Keton (MEK) in order to be completely removed.

## **PRECAUTIONS**

Avoid breathing of vapor or spray mist. Approved (MSHA/NIOSH) chemical cartridge respirator should be worn by applicator. For additional information on safety requirements, refer to OSHA guidelines and **GRAFFITI SHIELD** Material Safety Data Sheet.

**GRAFFITI SHIELD Cleaner** is highly flammable. Use only in a well ventilated area, away from open flames, sparks or other sources of ignition. Always wear solvent-resistant gloves and eye protection when using this product or any cleaning solvent.



2810 S. 18th Place • Phoenix, AZ 85034  
1-480-754.8900 1-800-541-4383  
www.questconstructionproducts.com