\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*GUIDE SPECIFICATION IS PROVIDED BY PROSOCO, INC. AS A SERVICE AND IS INTENDED TO BE USED AS A PROJECT SPECIFIC SPECIFICATION SECTION. This guide specification is written around the Construction Specifications Institute (CSI), FormatS AND GUIDING TECHNICAL **PRINCIPLES** and therefore may be used with most master specification systems. For specification assistance on specific product applications, please contact our offices AT (800) 255-4255 or our local product representatives.

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# 09 96 23- GRAFFITI-RESISTANT COATINGS

## GENERAL

### SUMMARY

#### Section Includes:

##### Graffiti-resistant treatment applied to exterior exposed walls.

#### Related Sections: Including, but not limited to:

##### *Retain subparagraphs below to suit the project.*

##### Section 01 33 00 - Submittal Procedures.

##### Section 04 01 10- Unit Masonry Cleaning.

##### Section 04 20 00- Unit Masonry.

### References

#### ASTM International (ASTM):

##### C67/C67M- Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile. (2021)

##### C140/C140M- Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units. (2022b)

##### D2369- Standard Test Method for Volatile Content of Coatings. (2020)

##### D6490- Standard Test Method for Water Vapor Transmission of Non-Film Forming Treatments Used on Cementitious Panels. (1999 R2014)

##### D6532- Standard Test Method for Evaluation of the Effect of Clear Water Repellent Treatments on Water Absorption of Hydraulic Cement Mortar Specimens. (2000 R 2022)

##### D7089- Standard Practice for Determination of the Effectiveness of Anti-Graffiti Coating for Use on Concrete, Masonry and Natural Stone Surfaces by Pressure Washing. (2006 R2021)

##### E96- Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials. (2000)

### SUBMITTALS

#### Submit product data including, but not limited to, detailed test results of products applied to surfaces indicated.

#### Submit manufacturer's instructions for application methods and procedures.

#### Submit manufacturer's certification indicating graffiti-resistant treatment meets or exceeds requirements stated herein.

### QUALITY ASSURANCE

#### The applicators shall have a minimum of five years of experience using specified techniques for graffiti-resistant treatment application.

#### Applicators: Trained and approved by the product manufacturer.

#### Mock-ups:

##### Apply product to each type of substrate indicated to receive graffiti-resistant treatment.

##### Size: Minimum 48 inches (1219 mm) by 48 inches (1219 mm).

##### Owner’s Representative and Architect will review each mock-up after graffiti-resistant treatment has cured.

###### Contractor, at no additional expense to the Owner, shall provide additional mock-ups until approval is obtained from the Owner’s Representative and Architect.

##### Maintain each approved mock-up until date of Substantial Completion.

##### Approved mock-up may remain as part of permanent installation.

### delivery, storage, and handling

#### Deliver materials to Project site and store in accordance with manufacturer’s written instruction.

#### Protect materials from freezing.

### SITE CONDITIONS

#### Protection:

##### The surface and atmospheric temperature shall be at least 40 degrees F (4.44 degrees C). and rising during application and for eight hours following application. Surface and air temperatures shall not exceed 90 degrees F (32.22 degrees C).

##### Surfaces of substrates to receive graffiti-resistant treatment shall be dry.

##### Apply only in well-ventilated areas.

##### Apply sealants minimum 24 hours, or as required by sealant manufacturer, whichever is greater, prior to application of graffiti-resistant treatment.

## PRODUCTS

### GRAFFITI-RESISTANT TREATMENTS

##### *Retain subparagraphs below to suit the project.*

##### *NOTE: Products listed also have water repellent properties. Use this section to specify the products when the primary application required is for graffiti resistance. When the primary application required is for water resistance, use Section 07 19 00 “Water Repellents.”*

*Retain paragraph below if Water-Based Graffiti Repellent with 6% solids is required. Applicable Substrates: Architectural Concrete Block, Concrete, Fired Clay, and Unpolished Sandstone. May darken or enhance the natural color of some surfaces.*

#### Graffiti- Resistant Treatment:

##### Use clear-drying, penetrating, water-based silicone emulsion for protecting substrate from graffiti attacks[ and weatherproofing masonry materials] without altering their natural appearance.

##### Physical and Performance Properties:

###### Total Solids per ASTM D2369: 6 percent.

###### Comply with VOC requirements of authorities having jurisdiction.

###### Water Absorption Reduction per ASTM C67/C67M:

Brick: Greater than 98 percent.

###### Water Absorption Reduction per ASTM C140/C140M:

CMU: Greater than 87 percent.

###### Water Vapor Transmission per ASTM E96:

Clay Brick: Greater than 99 percent.

Concrete Block: Greater than 95 percent.

Mortar: Greater than 88 percent.

###### Water Vapor Transmission (WVT) per ASTM D6490: Minimum 91 percent retention.

###### Cleanability: Level 2 per ASTM D7089.

##### Basis of Design:

###### "[Sure Klean Weather Seal Blok-Guard & Graffiti Control](https://prosoco.com/product/blok-guard-graffiti-control-wb-6/) WB 6"; [PROSOCO, Inc.](http://www.prosoco.com/)

*Retain paragraph below if Solvent-Based Graffiti Repellent with 9% solids is required. Applicable Substrates: Architectural Concrete Block, Concrete, Fired Clay, Unpolished Marble, Unpolished Travertine, Unpolished Limestone, Unpolished Sandstone, and Wood. May darken or enhance the natural color of exposed aggregate, pigmented block or mortar.*

#### Graffiti-Resistant Treatment:

##### Use clear-drying, penetrating, solvent-based silicone for protecting masonry from graffiti attacks[ and weatherproofing masonry materials].

##### Physical and Performance Properties:

###### Total Solids per ASTM D 2369: 9 percent.

###### Comply with VOC requirements of authorities having jurisdiction.

###### Water Absorption Reduction per ASTM C67/C67M.

Brick: Greater than 96 percent.

###### Water Absorption Reduction per ASTM C140/C140M:

Heavy Weight CMU: Greater than 89 percent.

Split Face CMU: Greater than 95 percent.

###### Water Vapor Transmission per ASTM E96:

Limestone: Greater than 86 percent.

Sandstone: Greater than 95 percent.

Concrete Block: Greater than 95 percent.

Mortar: Greater than 95 percent.

###### Water Vapor Transmission (WVT) per ASTM D 6490: Minimum 93 percent retention.

###### Cleanability: Level 2 per ASTM D7089.

##### Basis of Design:

###### "[Sure Klean Weather Seal Blok-Guard & Graffiti Control 9](https://prosoco.com/product/blok-guard-graffiti-control-9/)"; [PROSOCO, Inc.](http://www.prosoco.com/)

*Retain paragraph below if VOC Exempt Graffiti Repellent with 9% solids is required. Applicable Substrates: Architectural Concrete Block, Concrete, Fired Clay, Unpolished Marble, Unpolished Travertine, Unpolished Limestone, Unpolished Sandstone, and Wood. May darken or enhance the natural color of exposed aggregate, pigmented block or mortar.*

#### Graffiti-Resistant Treatment:

##### Use clear-drying, penetrating, solvent-based silicone for protecting masonry from graffiti [and weatherproofing masonry].

##### Physical and Performance Properties:

###### Total Solids per ASTM D 2369: 9 percent.

###### Comply with VOC requirements of authorities having jurisdiction.

###### Water Absorption Reduction per ASTM C67/C67M:

Brick: Greater than 96 percent.

###### Water Absorption Reduction per ASTM C140/C140M:

Heavy Weight CMU: Greater than 89 percent.

Split Face CMU: Greater than 95 percent.

###### Water Vapor Transmission per ASTM E96:

Limestone: Greater than 86 percent.

Sandstone: Greater than 95 percent.

Concrete Block: Greater than 95 percent.

Mortar: Greater than 95 percent.

###### Water Vapor Transmission (WVT) per ASTM D 6490: Minimum 88 percent retention.

###### Cleanability: Level 2 per ASTM D7089.

##### Basis of Design:

###### "[Sure Klean Weather Seal Blok-Guard & Graffiti Control VOC](https://prosoco.com/product/blok-guard-graffiti-control-voc-9/) 9"; [PROSOCO, Inc.](http://www.prosoco.com/)

*Retain paragraph below if Solvent-Based Graffiti Repellent with 15% solids is required. Applicable Substrates: Architectural Concrete Block, Concrete, Fired Clay, Unpolished Marble, Unpolished Travertine, Unpolished Limestone, Unpolished Sandstone, and Wood. May darken or enhance the natural color of exposed aggregate, pigmented block or mortar.*

#### Graffiti-Resistant Treatment:

##### Use clear-drying, penetrating, solvent-based silicone for protecting masonry from graffiti attacks[ and weatherproofing masonry].

##### Physical and Performance Properties:

###### Total Solids per ASTM D 2369: 15 percent.

###### Comply with VOC requirements of authorities having jurisdiction.

###### Water Absorption Reduction per ASTM C67/C67M:

Brick: Greater than 99 percent.

###### Water Absorption Reduction per ASTM C140/C140M:

Light Weight CMU: Greater than 89 percent.

Medium Weight CMU: Greater than 95 percent.

###### Water Vapor Transmission per ASTM E96:

Medium Weight CMU: Greater than 86 percent.

Clay Brick: Greater than 95 percent.

###### Water Vapor Transmission (WVT) per ASTM D 6490: Minimum 85 percent retention.

###### Cleanability: Level 2 per ASTM D7089.

##### Basis of Design:

###### "[Sure Klean Weather Seal Blok-Guard & Graffiti Control](https://prosoco.com/product/blok-guard-graffiti-control-15/) 15"; [PROSOCO, Inc.](http://www.prosoco.com/)

*Retain paragraph below if Water-Based Graffiti Repellent with 15% solids is required. Applicable Substrates: Architectural Concrete Block, Concrete, Fired Clay, and Unpolished Sandstone. Will not darken the substrate.*

#### Graffiti-Resistant Treatment:

##### Use clear-drying, penetrating, water-based silicone emulsion for protecting masonry from graffiti attacks[ and weatherproofing masonry] without altering their natural appearance.

##### Physical and Performance Properties:

###### Total Solids per ASTM D 2369: 15 percent.

###### Comply with VOC requirements of authorities having jurisdiction.

###### Water Absorption Reduction per ASTM C67/C67M:

Brick: Greater than 99 percent.

###### Water Absorption Reduction per ASTM C140/C140M:

CMU: Greater than 92 percent.

###### Water Vapor Transmission (WVT) per ASTM D 6490: Minimum 97 percent retention.

###### Cleanability: Level 2 per ASTM D7089.

##### Basis of Design:

###### "[Sure Klean Weather Seal Blok-Guard & Graffiti Control WB](https://prosoco.com/product/blok-guard-graffiti-control-wb-15/) 15"; [PROSOCO, Inc.](http://www.prosoco.com/)

*Retain the paragraph below if VOC Exempt Graffiti Repellent with 15% solids is required. Applicable Substrates: Architectural Concrete Block, Concrete, Fired Clay, Unpolished Marble, Unpolished Travertine, Unpolished Limestone, Unpolished Sandstone, and Wood. May darken or enhance the natural color of exposed aggregate, pigmented block or mortar.*

#### Graffiti-Resistant Treatment:

##### Use clear-drying, penetrating, solvent-based silicone for protecting masonry from graffiti attacks[ and weatherproofing masonry].

##### Physical and Performance Properties:

###### Total Solids per ASTM D 2369: 15 percent.

###### Comply with VOC requirements of authorities having jurisdiction.

###### Water Absorption Reduction per ASTM C67/C67M:

Brick: Greater than 99 percent.

###### Water Absorption Reduction per ASTM C140/C140M:

Light Weight CMU: Greater than 89 percent.

Medium Weight CMU: Greater than 95 percent.

###### Water Vapor Transmission per ASTM E96:

Medium Weight CMU: Greater than 86 percent.

Clay Brick: Greater than 95 percent.

###### Water Vapor Transmission (WVT) per ASTM D 6490: Minimum 82 percent retention.

###### Cleanability: Level 2 per ASTM D7089.

##### Basis of Design:

###### "[Sure Klean Weather Seal Blok-Guard & Graffiti Control VOC](https://prosoco.com/product/blok-guard-graffiti-control-voc-15/) 15"; [PROSOCO, Inc.](http://www.prosoco.com/)

*Retain paragraph below if graffiti removal is required. These products do not use methylene chloride or methanol. Applicable Substrates: masonry, concrete, wood, and metal. Not for use on finely finished wood and polished surfaces or to remove cementitious coatings..*

#### Graffiti Remover:

##### Product shall be manufactured and approved for use by the graffiti-resistant treatment manufacturer:

##### Approved Products:

###### [Enviro Klean SafStrip](https://prosoco.com/product/safstrip/); [PROSOCO, Inc.](http://www.prosoco.com/)

###### [Enviro Klean SafStrip 8](https://prosoco.com/product/safstrip-8/); [PROSOCO, Inc.](http://www.prosoco.com/)

###### [Sure Klean Graffiti Remover](https://prosoco.com/product/graffiti-remover/)"; [PROSOCO, Inc.](http://www.prosoco.com/)

## EXECUTION

### EXAMINATION

#### Verify surfaces to receive graffiti-resistant treatments are clean, free of efflorescence, oil, grease, or other foreign matter detrimental to application.

#### Verify all windows, exterior intakes and air conditioning vents are covered and air handling equipment is shut down during application and until vapors have dissipated.

### PREPARATION

#### Remove loose particles and foreign matter. Remove grease or oil with a solvent, effective alkaline cleaner, or detergent as recommended by graffiti-resistant treatment manufacturer.

#### Allow surfaces to dry prior to application.

#### Protect surrounding areas as recommended by the manufacturer and as directed by the Architect.

##### Windows: Protect from contact with coating materials by masking with polyethylene or other approved techniques.

##### Polished Stone, Metal, or Non-masonry Surfaces: Protect from contact with the coating materials by masking with polyethylene.

##### Masonry: Surfaces must be in good repair and completely dry. Allow new masonry construction surfaces to cure for minimum 28 days prior to application.

### FIELD TESTING

#### Test surfaces and materials to be treated to ensure compatibility and desired graffiti-resistant treatment results.

##### Sample Area:

###### Size: 48 inches (1219 mm) by 48 inches (1219 mm).

###### Apply to substrate and allow to cure.

###### Owner’s representative will inspect the cured test panel for approval.

###### Maintain approved sample for comparison during the Work.

#### Adjacent Material Testing:

##### Test samples of adjacent materials for compatibility with the graffiti-resistant treatment.

##### Owner’s representative will inspect the samples for approval.

#### If any part of this work is found to be defective due to improper preparation of surfaces or application of treatment at any time before the final acceptance of the work, the Contractor shall, at his own expense, make good such defect to the satisfaction of the Owner and Design Professional.

### Graffiti-Resistant Treatment APPLICATION

#### Do not dilute graffiti-resistant treatment.

#### Apply graffiti-resistant treatment in accordance with manufacturer’s written instructions, by brush or spray application method, in coverage rate recommended by manufacturer for substrate.

#### Apply graffiti-resistant treatment from bottom to top of each scaffold width and from one end of each elevation to the other.

##### *Preferred method of application is with low pressure, spray equipment. Use roller or brush for small scale applications or when spray application is not appropriate.*

#### Spray Application:

##### Apply at maximum 50 psi pressure.

##### Uniformly saturate graffiti-resistant treatment using the “wet-on-wet” application method from bottom up, creating a 6 to 8 inch rundown below the spray contact point.

##### Let the first application penetrate for 2 to 3 minutes. Brush out heavy runs and drips to prevent build up.

##### Apply a second coat of graffiti-resistant treatment for heavily textured and porous surfaces.

##### *Edit subparagraph below to suit product. One (1) hour for Blok-Guard & Graffiti Control WB 6 and WB 15. Two (2) hours for Blok-Guard & Graffiti Control 9, VOC 9, 15 and VOC 15.*

###### Apply when first coat is dry to touch, or within [one][two] hour[s] of first coat to maximize the effectiveness of the second coat.

#### Roller or Brush Application:

##### Uniformly saturate the surface with graffiti-resistant treatment. Avoid excessive overlapping. Brush out heavy runs and drips to prevent build up.

##### Apply a second coat of graffiti-resistant treatment.

##### *Edit subparagraph below to suit product. One (1) hour for Blok-Guard & Graffiti Control WB 6 and WB 15. Two (2) hours for Blok-Guard & Graffiti Control 9, VOC 9, 15 and VOC 15.*

###### Apply when first coat is dry to touch, or within [one][two] hour[s] of first coat to maximize the effectiveness of the second coat.

##### *Retain the below paragraph for wood applications with BGGC 9, BGGC 9 VOC, BGGC 15, and BGGC VOC 15.*

#### Vertical Wood Application:

##### Uniformly saturate the surface with graffiti-resistant treatment to the point of rejection.

##### Let the first application penetrate for 2 to 3 minutes.

##### Apply a second coat of graffiti-resistant treatment when the first coat is dry to touch, or within two hours of the first coat.

### GRAFFITI REMOVER APPLICATION

#### At locations indicated, clean exterior masonry and concrete surfaces to comply in accordance with graffiti remover manufacturer’s written instructions designed to dissolve most spray paints, marking pens, and acrylic sealers from masonry.

### PROTECTION

#### Protect adjacent surfaces not scheduled to receive treatment. If applied on unscheduled surfaces, remove immediately, by manufacturer approved method.

#### Protect treated surfaces from rain for minimum 6 hours after application.

#### Correct damage by cleaning to appearance as approved by Design Professional.

# END OF SECTION 09 96 23