

**ITEM 559.9003--11 - FIELD APPLIED PERMANENT GRAFFITI-RESISTANT  
COATING**

**ITEM 559.9004--11 - FIELD APPLIED SACRIFICIAL WAX GRAFFITI-RESISTANT  
COATING**

**DESCRIPTION**

Under this Item, the Contractor shall furnish and apply Graffiti Resistant Coating to exterior stone, brick, block, concrete, wood, or metal surfaces in accordance with O.S.H.A. Guidelines, Manufacturers Recommendations and the Plans, Specifications and directions of the Engineer.

**MATERIALS**

Contractor shall apply Graffiti Resistant Coatings from one of the three (3) categories listed below, depending upon the type of substrate:

- A. For **wood** (unpainted) and **metal surfaces** (unpainted), the Contractor shall apply Graffiti Solution System (G.S.S) as manufactured by American Polymer Corp., Sandy, Utah 84070 (800) 676-5963; local distributor: Kenseal. (718) 937-5490; or ARMAGLAZE 9000 System aliphatic urethane as manufactured by Aquarius Coatings Inc., 7700 Pine Valley Drive, Unit 206, Woodbridge, Ont. L4L 2X4 (800) 561-6750; GCP 1000, by Genesis Coatings, 2780 La Mirada Drive, Suite B, Vista, CA 92083, (800) 533-4273; EN 324 & EN 325 by ENVIRO-NORTHEAST SALES CORP., P.O.Box 975, Highland Lakes, N.J. 07422; (973) 764-4303, Contact Person -Ed Talmo; or approved equal.
- B. For **new and unpainted masonry and concrete**, the Contractor shall apply Professional Water Sealant (P.W.S) Coatings, as manufactured by Professional Products of Kansas, Inc., Wichita, KA 67216; (800) 676-7346 Local Representatives: ENVIRO-NORTHEAST SALES CORP., P.O.Box 975, Highland Lakes, N.J. 07422; (973) 764-4303, Contact Person -Ed Talmo; Dumond Anti Graffiti, by Dumond Chemical, Inc., 1501 Broadway, N.Y., N.Y., 10036 (212) 869-6350; GCP 1000, by Genesis Coatings, 2780 La Mirada Drive, Suite B, Vista, CA 92083, (800) 533-4273; or approved equal.
- C. For **stained concrete** –Unless otherwise directed by the Engineer, the Contractor shall apply a sacrificial wax coating; ENVIRO-SHEILD, as manufactured by ENVIRO-NORTHEAST SALES CORP., P.O.Box 975, Highland Lakes, N.J. 07422; (973) 764-4303, Contact Person -Ed Talmo; or SC-101 Sacrificial Graffiti Barrier Coating, by Dumond Chemical, Inc., 1501 Broadway, N.Y., N.Y., 10036 (212) 869-6350; G-PRO, as manufactured by Great Barrier Systems, 6951 N. Ridge Chicago, Illinois 60645, (773) 761-1677; Graffiti Melt Coating, by Genesis Coatings, 2780 La Mirada Drive, Suite B, Vista, CA 92083, (800) 533-4273; or approved equal.

**PRODUCTS:**

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- A. **"G.S.S." COATINGS:** Note: This Coating shall be applied to surfaces listed under A above. No previously painted surfaces shall receive this coating.
1. a. **G.S.S.-Barrier, Standard:** Sealer product; standard undercoat-not high solids version. This Standard Version shall be used with Clear Overcoat for coating wood. [\* For Steel and Aluminum Surfaces, in lieu of G.S.S.-Barrier, use a water-borne urethane primer, such as Bond-Plex, as manufactured by Sherwin Williams Company (718) 426-8813.]
  1. b. **G.S.S.-Barrier, High Solids:** Shall be used with Pigmented Topcoat. The High Solids Version is not recommended for use with clear top coating. High Solids barrier consists of a one component, acrylic copolymer coating.
  2. a. **G.S.S.-10 Clear Coating (Low V.O.C.):** Anti-Graffiti product; overcoat. G.S.S.-10 consists of a polymer composition; two (2) component resin and catalyst system. It is a non-sacrificial permanent coating, with flat/matte finish. G.S.S.-10 Part A is premeasured for use with Part B.
  2. b. **G.S.S.- Pigmented Coating:** Anti-Graffiti product; topcoat. Two (2) component polyurethane, nonsacrificial, protective coating. Color shall be selected from either the manufacturers standard color guide, or Sherwin Williams Industrial and Marine Coatings; System 4000 color chart. Finish shall be flat/matte (not gloss) unless otherwise noted. [Pigmented coating shall be used in lieu of clear coating when directed by the Engineer.]
- B. **"P.W.S." COATINGS:** Note: This Coating shall be applied to surfaces listed under B above.
1. **Professional Water Sealant (PWS) Low V.O.C:** Anti-graffiti protectant. Professional Water Sealant consists of a penetrating, permanent weatherproofing treatment; one component sealant, clear with flat/matte finish, formulated using Silicone Rubber (RTV).
- C. For **stained concrete** -the Contractor shall apply a sacrificial wax coating as listed in C above, unless directed otherwise by the Engineer.

**CONSTRUCTION DETAILS**

Thirty (30) days prior to the start of this work, the Contractor shall submit a work schedule, for this work, to the Engineer.

The contractor shall keep the top coating surface graffiti free until the coating is cured.

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Quality Assurance Graffiti Resistant Coating shall be applied only by an installer trained by the manufacturer of each respective product. A training session will be provided on site by a factory representative.

**PRODUCT DELIVERY, STORAGE, AND HANDLING:**

- A. Contractor shall deliver materials in sufficient quantity to allow for continuity of work. Protect all materials, and equipment, during transit, delivery, storage, and handling to prevent damage and deterioration.
- B. Avoid fire; open flame and sparks. Container contents, even when empty, may ignite explosively when exposed to heat, welding, cutting torch, pilot lights and other flames and ignition sources at locations distant from the material storage and handling point.
- C. Avoid inhalation; ingestion; skin contact; and eye contact.
- D. Protect shrubs, plants and grass, during application. Avoid wind drift which may injure passersby or damage vehicles and adjacent properties.
- E. For additional cautions, human health data and protective equipment to be used (including respiratory), refer to Material Safety Data Sheets.
- F. Containers shall be kept closed when not in use.
- G. Dispose of excess, waste materials and empty containers in accordance with all local, state and federal regulations. Empty containers may be classified as hazardous; they retain product residues such as vapor, liquid or solid. Do not transfer contents into other containers for storage.
- H. Contractor shall implement any additional requirements as per manufacturer's recommendations.

**SURFACE PREPARATION:**

Surfaces shall be thoroughly dry, cleaned and free of dust, surface dirt, oil, grease and other contaminants that might prevent penetration of the coatings. Newly constructed surfaces, repointed surfaces and concrete shall be cured for at least 28 days before application. Glossy, glazed and slick troweled surfaces should be lightly etched or abraded before application of coatings. Surface defects, voids, joints or cracks must be properly sealed or filled, allowing any patching compounds to be completely cured before application. Cleaning may be accomplished by high pressure washing, sand blasting or chemical cleaning, as determined by the Engineer. When chemicals are used, they should be removed by high pressure water cleaning before application of the sealant. Use of raw acids shall not be permitted. Allow cleaned surfaces to dry completely. A test must always be made prior to application using the same cleaning and application procedures as to be used on the project. This test area shall remain available to be inspected by the Engineer. Contractor shall implement any additional requirements as per manufacturer's recommendations.

**APPLICATION PROCEDURES:** as per manufacturer's recommendations

**CLEAN-UP INSTRUCTIONS:** as per manufacturer's recommendations

**CURE TIME REQUIRED PRIOR TO REMOVER USE:** as per manufacturer's recommendations

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**METHOD OF MEASUREMENT**

The quantity of graffiti resistant coating to be paid for under this item will be the number of square meters of surfaces prepared, coated, and cured, in accordance with the Contract Drawings, Specifications and directions of the Engineer.

**BASIS OF PAYMENT**

The price per square meter shall include the cost of all labor, materials, equipment and incidental expenses necessary to furnish and install graffiti resistant coatings, including surface preparation, application, and proper curing of coating and protection of the surfaces from graffiti tagging until the coating is fully cured, all in accordance with the Plans, Specifications, and directions of the Engineer.

No additional payment will be made for surface preparation cleaning by high pressure washing, sand blasting, or chemical cleaning as determined by the Engineer. Pre-existing graffiti shall be removed under separate pay items.

The Contractor is responsible for the protection of the traveling public and the protection of trees and vegetation at no additional cost to the State.

The training session provided on site by a factory representative will be at no additional cost to the State.

<b><i>Item No.</i></b>	<b><i>Item</i></b>	<b><i>Pay Unit</i></b>
559.9003--11	Field Applied Permanent Graffiti-Resistant Coating	Square Meter
559.9004--11	Field Applied Sacrificial Wax Graffiti-Resistant Coating	Square Meter