

# Los Angeles Unified School District

## Facilities Services Division

# Lessons Learned Bulletin

September 23, 2008

**Bulletin No. 0048 REV # 2**

### Anti-Graffiti Coatings

#### **Issue Identified:**

The Los Angeles Unified School District (LAUSD) recently revised Guide Specification Section 09960, Anti-Graffiti Coatings Non-Sacrificial Graffiti Control System. This revised version (dated 09/12/2008) has been posted and is available on the laschools.org website (reference attached copy).

Revisions in this updated version include changes to the acceptable products, Permashield Premium 5600 or 5650 applied over Permashield Base 6100 (manufactured by Monopole Inc.) are the only listed non-sacrificial anti-graffiti coating products that can be used to protect unpainted concrete, brick, block or stone finish surfaces provided OEHS requirements are followed.

The Warranty Requirements were also revised, as the new version requires the manufacturer to provide a 10 year material warranty.

ND Graffiti Shield (manufactured by New Dimension Solutions, LLC) included on the previous version, is no longer acceptable for use on District school projects.

#### **Recommendation/Action:**

OAR on projects currently under construction should coordinate with their Regional Director and Senior Project Manager to determine need and obtain approval for the addition of anti-graffiti coatings.

As applicable, project OAR should coordinate with their AOR to prepare and issue the required construction documents (drawings indicating surfaces and extent of areas to receive anti-graffiti coatings, construction directive, change order or as applicable) to incorporate anti-graffiti coatings and the most current version of section 09960 into their project scope.

Note, Contractor is still required to provide graffiti free buildings and site in accordance with general requirements noted in specification section 01500, 3.04.F. Graffiti cleaning products approved by OEHS and listed on their website can be used by the Contractor during construction to clean graffiti from surfaces.

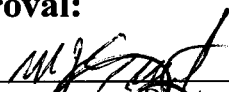
#### **Cost Impact:**

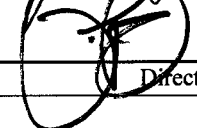
Possibly

#### **Change Order:**

Possibly

#### **Approval:**

  
\_\_\_\_\_  
Director of Project Support

  
\_\_\_\_\_  
Director of Construction

## SECTION 09960

### ANTI-GRAFFITI COATINGS NON-SACRIFICIAL GRAFFITI CONTROL SYSTEM

**NOTE TO PROJECT ARCHITECT:** Anti-graffiti coatings to be used only on exposed natural color concrete (except walking surfaces), integrally colored precision masonry units, color masonry units, brick masonry, stones and painted murals. Anti-graffiti coatings should not be used for stucco— these surfaces should be painted per specification section 09900.

#### PART 1 - GENERAL

##### 1.01 SUMMARY

- A. Provisions of Division 01 apply to this section.
- B. Related Sections:
  - 1. Section 09900: Painting.

##### 1.02 SUBMITTALS

- A. Provide submittals in accordance with Division 01.
- B. Samples: Submit Samples of coating system.
- C. Product Data: Submit anti-graffiti coating manufacturer's technical data and installation instructions, recommended coverage rates for types of surfaces to be treated, and evidence that coatings conform to all requirements specified. Submit evidence of code approvals.
- D. Furnish Samples on the same materials to which coating will be applied on. Indicate satin or flat finish. Coat one-half of each Sample, with the other half non-coated.
- E. Installer: Submit written evidence the installer for the Work of this section has completed at least 5 projects of similar complexity within the past 5 years.
- F. Certificate and Summary Statement: Before Substantial Completion, submit a certificate stating that coatings applied conform to reviewed submittals and all specified requirements. Provide a summary statement setting forth the following:
  - 1. Number of square feet of each surface treated with coating, classified as to the kind of material treated, open pore or closed pore type, and whether vertical or horizontal.
  - 2. The number of gallons of each type, class, or grade of coating required to treat all involved surfaces, based on the number of square feet of each type and orientation of the material the coating was installed on.
  - 3. Total gallons of each coating type, class, or grade installed.

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- G. Maintenance Instructions: Furnish manufacturer's recommended graffiti removal instructions, and recommendations for recoating. Furnish names and addresses of cleaning firms and of suppliers of maintenance materials.
- H. Maintenance Material: Furnish five -gallons of each product specified.

1.03 QUALITY ASSURANCE

- A. Manufacturer's Observation: Start coating application under the observation of the coating manufacturer's technical representative. Notify the IOR and coating manufacturer at least 72 hours before starting installation.
- B. Preliminary Tests: Perform tests on each kind of surface to be treated to establish the actual application rates required to provide the surfaces resistant to defacing and meet warranty requirements. Tests shall demonstrate the coating does not yellow, darken, mottle, or discolor any treated surface and those surfaces to be treated are dry. Established application rates shall not be less than those recommended in the coating manufacturer's technical data for the kind and surface orientation of the material.
- C. Compliance with Regulations: Materials shall comply with the current rules and regulations of the local air quality management district, with the rules regarding volatile organic compounds, and with FDA rules and regulations for dangerous materials in coatings.
- D. Materials shall meet requirements of SCAQMD regarding emission of solvents and other pollutants.
- E. Qualifications:
  - 1. Manufacturer: Anti-graffiti coating shall be product of a manufacturer who has been regularly engaged in manufacturing anti-graffiti coatings for at least 10 years. Manufacturer shall supply references of at least 5 satisfactory installations in which anti-graffiti coating has been in service for at least 5 years.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Deliver all coating materials to the Project site in containers bearing name and batch number of manufacturer, with seals intact.

1.05 PROJECT CONDITIONS

- A. Protection: Install temporary coverings and protection, and do not allow any coating to contact plastic, planting soil, plants, asphaltic paving, roofing membranes, or other materials that are likely to be damaged by coating.
- B. Weather Conditions: Do not install coating during windy, wet, or excessively hot or dry weather conditions.

1.06 WARRANTY

- 1. Manufacturer shall provide a 10 year material warranty.

2. Installer shall provide a 3 year labor warranty.

## PART 2 - PRODUCTS

### 2.01 ACCEPTABLE PRODUCTS

**NOTE TO PROJECT ARCHITECT:** Select from the options presented below.

- A. Permashield Premium 5600 over Permashield Base 6100, Permanent Graffiti Control, Manufactured by Monopole Inc, Glendale, California.
  1. [Clear Satin] or [Clear Flat].
- A. Permashield Premium 5650 over Permashield Base 6100, Permanent Graffiti Control, Manufactured by Monopole Inc, Glendale, California.
  1. [Clear Satin] or [Clear Flat].

### 2.02 PROPERTIES

- A. Coatings shall not darken or discolor the treated surfaces and shall be non-toxic, compatible with all standard polymer type caulking and sealing materials, conforming to AQMD 1113, and certified by manufacturer as suitable over paint finish.
- B. Colors of opaque materials shall match adjoining colors as required, or shall be as selected from manufacturer's standard and custom colors.

## PART 3 - EXECUTION

### 3.01 EXAMINATION

- A. Do not start installation of coating if conditions are present that prevent or interfere with the correct preparation of surfaces or installation of coating system.

### 3.02 PREPARATION

- A. Remove dust, dirt, oil, grease, other deleterious substances and stain, and efflorescence and laitance from surfaces. Repair cracks and holes over 1/16 inch size. Spot prime cracks and holes 1/16 inch size and smaller and prime all horizontal surfaces other than soffits with a heavy duty coating supplied by same coating manufacturer. Mask and protect adjoining surfaces and glass, unless coating is harmless and easily removed.

### 3.03 APPLICATION

- A. Install the anti-graffiti coating to surfaces as indicated on drawings.

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**NOTE TO PROJECT ARCHITECT:** Drawings need to clearly indicate surfaces that are to receive anti-graffiti coatings. It is recommended that wall surfaces be coated to a height of 9' and that a break line such as a screed be included to terminate the coating if the wall surface continues beyond that point.

- B. Application Rates: Apply a minimum of 3 coats or more as recommended by manufacturer published application instructions, in the quantity of coating and coverage rates per coat established by preliminary tests, except total quantity shall be not less than the rate recommended for the involved surface in manufacturer's technical data.
- C. Spray Application: Install each coat by airless spray with nominal 20 psi nozzle pressure. Obtain complete coverage of each coat. Indicate areas that are coated when application is stopped for lunch or at the end of the day.

3.04 CLEANING

- A. Remove rubbish, debris, and waste materials and legally dispose of off the Project site.

3.05 PROTECTION

- A. Protect the Work of this section until Substantial Completion.

END OF SECTION