**SECTION 09 01 30**

**MAINTENANCE OF TILING**

This section includes editing notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by the following method in Microsoft Word:

 Display the FILE tab on the ribbon, click OPTIONS, then DISPLAY. Select or deselect HIDDEN TEXT.

This guide specification section has been prepared by Chemona Nanocoat Technologies for use in the preparation of a project specification section covering cleaning and sealing of interior and exterior tile floors and walls.

The following should be noted in using this specification:

Hypertext links to specific websites are included after manufacturer names and names of organizations whose standards are referenced within the text, to assist in product selection and further research. Hypertext links are contained in parenthesis and shown in blue, e.g.:

 [(www.astm.org](http://(www.astm.org))

Items requiring user input are enclosed within brackets and included as red text, e.g.:

 Section [09 00 00] [\_\_ \_\_ \_\_.]

Optional paragraphs are separated by an "OR" statement included as red text, e.g.:

\*\*\*\* OR \*\*\*\*

For assistance on the use of the products in this section, contact Chemona Nanocoat Technologies by email at ben@chemona.us or brian@chemona.us, or visit their website at [www.chemona.us](http://www.chemona.us).

1. **GENERAL**
	1. SUMMARY

Edit the following to include only those items specified in this section.

* + 1. Section Includes:
			1. Cleaning of [interior] [and] [exterior] tile [floor] [and] [wall] surfaces.
			2. Sealing tile after cleaning.

Coordinate the following with other sections in the Project Manual.

* + 1. Related Requirements:
			1. Division 01 - General Requirements: Administrative, procedural, and temporary work requirements.
	1. ADMINISTRATIVE REQUIREMENTS

Retain the following for a pre-installation conference to review the work of this section prior to installation.

* + 1. Pre-Installation Conference:
			1. Convene at Project site [2] [\_\_] weeks prior to beginning work of this Section.
			2. Attendance: [Owner,] [Architect,] [Contractor,] [Construction Manager,] and subcontractor.
			3. Review and discuss: Work sequence, protection of adjacent surfaces, and protection of surfaces after cleaning and sealing.
	1. SUBMITTALS

Retain the following for submittals requiring the Design Professional’s review.

* + 1. Action Submittals:
			1. Product Data: Manufacturer’s descriptive data for each product to be used.

Retain the following for closeout submittals for the Owner's record purposes.

* + 1. Closeout Submittals:
			1. Maintenance Data: Manufacturer’s recommended cleaning and maintenance instructions.
	1. QUALITY ASSURANCE

Retain the following if required; edit to suit project requirements.

* + 1. Subcontractor Qualifications: Minimum [2] [\_\_] years experience in work of this Section.

Retain the following for field mockups for review of procedures to be used.

* + 1. Mockup:
			1. Provide mockup of existing tile surface showing materials and procedures to be used.
			2. Size: Minimum [4 x 8] [\_\_ x \_\_] feet.
			3. Show: tile cleaning and sealing materials and procedures, each on one-half of mockup.
			4. Locate [where directed.] [\_\_\_\_.]
	1. DELIVERY, STORAGE AND HANDLING
		1. Deliver materials in manufacturer’s original containers with identifying labels intact.
		2. Store materials in enclosed location, within temperature and humidity limits required by manufacturer.
	2. SITE CONDITIONS
		1. Perform work within temperature and humidity limits required by manufacturer for each product.
1. **PRODUCTS**
	1. MANUFACTURERS
		1. Contract Documents are based on products by Chemona Nanocoat Technologies [www.chemona.us](http://www.chemona.us).

Edit the following to indicate whether or not substitutions will be permitted for the products in this section.

* + 1. Substitutions: [Refer to Division 01.] [Not permitted.]
	1. MATERIALS
		1. Cleaner:
			1. Source: Chemona Cleaner.
			2. Description: Water-based multi-surface cleaner using nano technology, colorless and streak free when dry, free from silicones.

Retain the following for an interior sealer for smooth surfaces with a life expectancy of approximately 12 to 24 months.

* + 1. Sealer:
			1. Source: Wood and Stone Coat Interior.
			2. Description: Water- based coating, based on inorganic nanoparticles; provides protective surface layer with water and oil repellent properties.
			3. Volatile Organic Compound (VOC) content: 0 grams per liter.
			4. PH: 7.
			5. Cured thickness: Undetectable.

\*\*\*\* OR \*\*\*\*

Retain the following for an exterior sealer for porous surfaces with a life expectancy of approximately 6 months.

* + 1. Sealer:
			1. Source: Wood and Stone Coat Exterior.
			2. Description: Aqueous one-component coating based on chemical engineered nano technology; adds water and dirt repellent qualities to treated surfaces.
			3. Volatile Organic Compound (VOC) content: 0 grams per liter.
			4. PH: 7.
			5. Cured thickness: Undetectable.

\*\*\*\* OR \*\*\*\*

Retain the following for an interior or exterior sealer with a life expectancy of approximately 5 years.

* + 1. Sealer:
			1. Source: 1C Anti Graffiti Coat.
			2. Description: Single component, polysiloxane epoxy, transparent, non-sacrificial, gloss coating based on nanotechnology.
			3. Volatile Organic Compound (VOC) content: 38 grams per liter.
			4. Cured thickness: 5 to 7 microns.

\*\*\*\* OR \*\*\*\*

Retain the following for an interior or exterior sealer with a life expectancy of approximately 5 years.

* + 1. Sealer:
			1. Source: 2C Anti Graffiti Coat.
			2. Description: Two-component, polysiloxane epoxy, transparent, non-sacrificial, gloss coating based on nanotechnology.
			3. Volatile Organic Compound (VOC) content: 50 grams per liter.
			4. Cured thickness: 5 to 7 microns.
	1. MIXES
		1. Cleaner may be diluted up to 10 times.
		2. Sealer: Shake well before use; no mixing required.
1. **EXECUTION**
	1. PREPARATION
		1. Close off areas where work is being performed.
		2. Protect adjacent surfaces that could be damaged by application of cleaning and sealing products using nonstaining temporary coverings.
		3. Provide adequate ventilation.
	2. CLEANING
		1. Apply cleaner by spray in accordance with manufacturer’s instructions.
		2. Remove cleaning solution and dirt from surfaces using soft microfiber towel, sponge, or brush, or high-pressure cleaner.

Retain the following for Wood and Stone Coat Interior or Exterior.

* 1. SEALING
		1. Apply sealer by spray or foam roller in accordance with manufacturer’s instructions.
		2. Apply sealer by spray to uniform coverage.

* + 1. On vertical surfaces apply sealer beginning at bottom of wall and working upwards.
		2. Distribute excess coating using roller or brush and work. Work from bottom of wall up on vertical surfaces.
		3. Allow sealer to cure minimum of 3 hours, then apply second coat using same procedures as first.
		4. Application is complete when coating no longer attaches to surface.

\*\*\*\* OR \*\*\*\*

Retain the following for 1C Anti Graffiti Coat.

* 1. SEALING
		1. Apply sealer by spray or foam roller in accordance with manufacturer’s instructions.
		2. Apply sealer when relative humidity is less than 85 percent and temperature of surface to be treated is at least 37 degrees F above dew point.
		3. Apply sealer by brush, roller, or spray to uniform coverage.
	2. PROTECTION
		1. Allow 9 to 12 hours drying time before opening to traffic.
		2. Prohibit traffic on tile floors until sealer has cured.

END OF SECTION