SECTION 09 96 56- URETHANE COATING

**RESUWALL HP COATING (11 mils)**

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

 A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

1. This section includes the following:
2. Urethane wall coating system as shown on the drawings and in schedules.
3. Related sections include the following:

1. Concrete Curing, section 03 39 00

2. Unit Masonry, section 04 20 00

3. Plaster and Gypsum Board, section 09 20 00

1.3 SYSTEM DESCRIPTION

1. The work shall consist of preparation of the substrate, the furnishing and application of a pigmented urethane-based wall coating system. The system shall have the color and texture as specified by the Owner with a nominal thickness of 11 mils. It shall be applied to the prepared area(s) as defined in the plans strictly in accordance with the Manufacturer's recommendations.

1.4 SUBMITTALS

1. Product Data: Latest edition of Manufacturer's literature including performance data and installation procedures.
2. Manufacturer’s Safety Data Sheet (SDS) for each product being used.
3. Samples: A 3 x 3 inch square sample of the proposed system. Color, texture, and thickness shall be representative of overall appearance of finished system subject to normal tolerances.
4. Mock-up: provide 4’x4’ to be approved in writing by owner.

1.5 QUALITY ASSURANCE

 A. The Manufacturer shall have a minimum of 10 years experience in the production, sales, and technical

 support of urethane industrial flooring and wall coatings and related materials.

B. The Applicator shall have experience in installation of the wall system as confirmed by the manufacturer in

 all phases of surface preparation and application of the product specified.

 C. No requests for substitutions shall be considered that would change the generic type of the specified System.

 D. A pre-installation conference shall be held between Applicator, General Contractor and the Owner to review and clarification of this specification, application procedure, quality control, inspection and acceptance criteria and production schedule.

E. The system must be capable of withstanding aggressive cleaning/disinfecting including vaporized hydrogen peroxide (VHP), Vesphene.

 F. System shall be in compliance with the Indoor Air Quality requirements of California section

 01350 as verified by a qualified independent testing laboratory.

* 1. PRODUCT DELIVERY, STORAGE, AND HANDLING
1. Packing and Shipping
2. All components of the system shall be delivered to the site in the Manufacturer's packaging, clearly identified with the product type and batch number.

B. Storage and Protection

 1. The Applicator shall be provided with a storage area for all components. The area shall be between 60 F and 90 F, dry, out of direct sunlight and in accordance with the Manufacturer's recommendations and relevant health and safety regulations.

 2. Copies of Safety Data Sheets (SDS) for all components shall be kept on site for review by the Engineer or other personnel.

 C. Waste Disposal

 1. The Applicator shall be provided with adequate disposal facilities for non-hazardous waste generated during installation of the system.

1.7 PROJECT CONDITIONS

1. Site Requirements
2. Application may proceed while air, material and substrate temperatures are between 60 F and 90 F providing the substrate temperature is above the dew point. Outside of this range, the Manufacturer shall be consulted.
3. The relative humidity in the specific location of the application shall be less than 80 % and the surface temperature shall be at least 5 F above the dew point.
4. The Applicator shall ensure that adequate ventilation is available for the work area.
5. The Applicator shall be supplied with adequate lighting equal to the final lighting level during the preparation and installation of the system.

 B. Conditions of substrate to be coated with urethane material.

 1. Concrete shall be cured for a minimum of twenty eight days prior to the application of the coating system.

 2. Block wall mortar joints have cured no less than 7 days under good conditions.

 3. Sealers and curing agents should not be used.

 4. Drywall shall be completely clean and free of any oils, soap residue, and gypsum dust and prepared to a #4 to #5 finish.

 C. Safety Requirements

 1. All open flames and spark-producing equipment shall be removed from the work area prior to commencement of application.

1. "No Smoking" signs shall be posted at the entrances to the work area.

 3. The Owner shall be responsible for the removal of foodstuffs from the work area.

 4. Non-related personnel in the work area shall be kept to a minimum.

* 1. WARRANTY
1. Sherwin-Williams warrants that material shipped to buyers at the time of shipment substantially free from material defects and will perform substantially to Sherwin-Williams published literature if used in accordance with the latest prescribed procedures and prior to the expiration date.
2. Sherwin-Williams liability with respect to this warranty is strictly limited to the value of the material purchase. One-year standard material warranty.

PART 2 – PRODUCTS

2.1 COATING

 A. Sherwin-Williams Resuwall HP, Urethane-based seamless wall system

 1. System Materials:

 a. Base and Top Coat: Sherwin-Williams Resuwall HP Topcoat resin and hardener.

1. Patch Materials

 a. Shallow Fill and Patching: Use Sherwin-Williams Resuflor Cove-Rez.

2.2 MANUFACTURER

 A. The Sherwin-Williams High Performance Flooring, 866-540-1299 swflooring@sherwin.com Website: <https://industrial.sherwin-williams.com/na/us/en/resin-flooring.html>

 B. Manufacturer of Approved System shall be single source and made in the USA.

 C. Alternates must be approved 10 days prior to bid.

2.3 PRODUCT REQUIREMENTS

 A. Base and Top Coat Resuwall HP Topcoat

 1. VOC 0 g/L

 2. Impact resistance, ASTM D 2794 140 in. lbs.

 3. Abrasion resistance, ASTM D4060 84 mg loss (matte)

 CS 17 wheel (1,000 g load) 1,000 cycles 68 mg loss (eggshell)

 74 mg loss (satin)

 4. MEK Rubs >2,000 no gloss change

 5. Flame spread ASTM E84/NFPA-101 Class A

 6. Pot life @ 70o F 50% RH >2 hours

 7. Dry properties @ 70oF, 50% R.H. 16 - 24 hours

 8. Full chemical resistance 7 days (VHP 14 days)

PART 3 – EXECUTION

* 1. EXAMINATION

A. Examine substrates, areas and conditions, with Applicator present, for compliance with requirements for maximum moisture content, installation tolerances and other conditions affecting coating performance.

 1. Verify that substrates and conditions are satisfactory for installation and comply with requirements specified.

3.2 PREPARATION

1. General

 1. New and existing concrete surfaces shall be free of oil, grease, curing compounds, loose particles, moss,

 algae growth, laitance, friable matter, and dirt.

 2. There shall be no visible moisture present on the surface at the time of application of the system.

1. Remove loose mortar spatter, joint compounds, etc.
2. Create a surface profile on concrete with sandblasting apparatus and/or dust-free diamond grinders.
	1. APPLICATION
3. General

 1. The system shall be applied in four distinct steps as listed below:

 a. Substrate preparation

b. Priming

c. Base coat application

d. Topcoat application

 2. The handling, mixing and addition of components shall be performed in a safe manner to achieve the desired results in accordance with the Manufacturer's recommendations.

 3. The system shall follow the contour of the substrate.

 4. A neat finish with well-defined boundaries and straight edges shall be provided by the Applicator.

 B. Priming

Sherwin-Williams Heavy Duty Block Filler is recommended to fill any pores in the substrate when applying over concrete or block walls. Consult Sherwin-Williams for block filler at continuous wet areas. When applying over sheet rock, prime with Sherwin-Williams Extreme Bond Primer.

 C. Base Coat

 1. The base coat shall be comprised of two components: Resuwall HP as supplied by the Manufacturer.

 2. The hardener shall be added to the resin and thoroughly mixed by suitably approved mechanical means.

1. The base coat shall be applied by roller or brush at the rate of 400 sf/gal to yield a dry film thickness of 4mils.

 D. Topcoat

 1. The top coat shall be comprised of two components: Resuwall HP as supplied by the Manufacturer.

 2. The hardener shall be added to the resin and thoroughly mixed by suitably approved mechanical means.

 3. The top coat shall be applied by roller or brush at the rate of 400 sf/gal to yield a dry film thickness of 4mils.

3.4 FIELD QUALITY CONTROL

 A. Tests, Inspection

 1. The following tests shall be conducted by the Applicator:

 a. Temperature

 1. Air, substrate temperatures and, if applicable, dew point.

 b. Coverage Rates

 1. Rates for all layers shall be monitored by checking quantity of material used against the area covered.

* 1. CLEANING AND PROTECTION

 A. Cure material in compliance with manufacturer’s directions, taking care to prevent their contamination during stages of application and prior to completion of the curing process.

 B. Remove masking. Perform detail cleaning to leave cleanable surface for subsequent work of other sections.

5/9/2025 Resuwall HP 11 mils

*Please recycle - Thank you!*