



JUNE 2017

**SPECIFICATION FOR SPRAYED, BRUSH OR ROLLED  
APPLICATION MAINTENANCE COATING SYSTEM**

**NOTE:** THIS SPECIFICATION IS SUPPLIED AS A GENERAL GUIDE FOR THE INSTALLATION OF A MAINTENANCE COATING SYSTEM AND FOR THE CONSIDERATION FOR WARRANTY UPON THE SUCCESSFUL COMPLETION AND INSPECTION OF INSTALLATION.

PROJECT:

LOCATION:

AREA SQUARE FOOTAGE:

CONTACT PERSON:

CONTACT TELEPHONE #;

CONTRACTOR OF RECORD:

CONTACT PERSON:

CONTACT TELEPHONE #:

WARRANTY REQUESTED:

NOTE: THE CONTRACTOR OF RECORD IS SOLEY RESPONSIBLE FOR THE ORDERING AND DELIVERY OF THE CORRECT AMOUNTS OF REQUIRED PRODUCTS FOR THE PROPER INSTALLATION OF THE SPECIFIED SYSTEM.

REQUIRED INFORMATION FOR WARRANTY CONSIDERATION:

- Submit a completed request for warranty form from Oak Ridge Foam and Coating Systems, Inc.
- Submit a copy of the project site diagram and photos of the designated area or areas.
- Warranty project request must be approved by Oak Ridge Foam and Coating Systems, Inc. before start-up of work.
- Notification to Oak Ridge must be made for scheduling a substrate inspection of the pending project.

PART I – GENERAL

1.01 DESCRIPTION

- A. The intention of this specification is to outline the procedures for the application of Oak Ridge’s coating application to an existing substrate, i.e. wood, metal, concrete, built-up, modified or single ply existing roofing systems.
- B. This specification may not outline all procedures for the preparation and finishing of all components involved, i.e. penetrations, drains scuppers, associated mounted roof-top components and accessories and flashings, etc. This work should be outlined, documented by the Contractor of Record and approved by Oak Ridge’s technical department before work commences. All work shall be in strict compliance to industry standards and general guidelines for the installation of specified coating system.

- C. The scope of work is to include the supply of all equipment, labor and materials necessary to successfully installed the specified coating system.

#### 1.02 APPROVED APPLICATOR

- A. All specified products supplied by a single source manufacturer/supplier, Oak Ridge Foam and Coating Systems, Inc. shall be installed by an experienced and approved applicator.
- B. The Contractor of Record shall have been doing business for a minimum of five years and offering in his submittal package a listing of successful installations of equal size and the contact person and telephone contact for further investigation.

#### 1.03 QUALITY ASSURANCE

- A. The project applications, if warranty requested, will require onsite inspections. The cost of scheduled inspections is not to exceed \$1,700.00 per day and shall include the following:
1. Photos and/or videos of applications.
  2. The completion of Daily Quality Control Reports. The report shall include climatic weather conditions obtain at several intervals during the daily operations, equipment used for applications, daily start up and shutdown times, quantities of product applied and the square foot amounts treated, thinners utilized if applicable and noted problems encountered during the daily activities. **IN ALL CASES, APPLICATIONS SHALL BE IN COMPLIANCE WITH OAK RDIGE'S WRITTEN AND RECOMMENDED REQUIREMENTS.**
  3. Physical sampling of the applied system and immediate repair of the sampled areas once sampling is obtained.
  4. A review of the pending installation shall address the protection of surfaces not receiving the specified system. These areas are to be protected from possible contamination during the installation process. The Contractor of Record shall work closely with the Owner's Representative so as to limit disruption to daily operations of the facility.
  5. The Contractor of Record shall present his estimated work schedule to the Owner's Representative, retain a complete package that is easily accessible noted safety product information, emergency telephone numbers & possible exit plan when request is made.
  6. The Contractor of Record shall be in complete compliance with all local, state and federal code requirements and regulations for the safe handling, delivery and storage of all materials and equipment at a pre-agreed staging area.

### PART 2 – PRODUCTS

#### 2.01 COATINGS AND RELATED MATERIALS

ALL MATERIALS USED SHALL BE MANUFACTURED AND/OR SUPPLIED BY OAK RIDGE FOAM AND COATING SYSTEMS, INC. AND SHALL MEET THE FOLLOW REQUIREMENTS:

**NOTE: THE CONTRACTOR OF RECORD IS TO ADHERE TO THE USE OF A PRIMER OVER DESIGNATED SUBSTRATE AS REQUIRED BY OAK RIDGE FOAM AND COATING SYSTEMS, INC.**

**INSTALLATION OF APPLIED COATING SYSTEMS INCLUDE THE FOLLOWING:**

- ACRYLIC COATING – SINGLE COMPONENT ELASTOMERIC COATING SYSTEM.
- SILICONE COATING – SINGLE COMPONENT ELASTOMERIC SOLVENT COATING SYSTEM.

- URETHANE COATING – SINGLE COMPONENT SOLVENT COATING SYSTEM.
- POLYUREA COATING – PLURAL COMPONENT, 0 VOC, 100% SOLID ELASTOMERIC SYSTEM.

A. PROTECTIVE COATING SYSTEM:

1. ORACR: A high body, 60% solids by volume acrylic elastomeric coating displaying the following physical properties:
  - a. Tensile Strength – minimum of 250 ± 25 PSI – ASTM D-412
  - b. Elongation – 300% ± 25, ASTM D-412
  - c. Reflectivity – white, 80%, ASTM C-1549
  - d. Emissivity - .85, ASTM C-1371
2. ORHS95: High solids, single component, moisture cured Silicone Elastomeric coating system. This coating demonstrates excellent weather ability and water resistance characteristics with the following properties:
  - a. Tensile Strength – 432 PSI @ 0 degrees F, ASTM D-2370
  - b. Elongation – 216% @ 0 degrees F, ASTM D-2370
  - c. Reflectivity – White, .70 aged 3 years, ASTM C-1371
  - d. Emissivity: White, .90 aged 3 years, ASTM C-1371
3. OR78LS: Low solids Silicone Coating, moisture cured, single component @ 68% solids by volume.
4. ORAR-1: a single component aromatic urethane moisture cured elastomeric coating. ORAI-1 is the aliphatic version. Consult with Oak Ridge’s technical department for use of the correct formulation version.
  - a. Tensile Strength – 1550 PSI, ASTM D-412
  - b. Elongation – 365%, ASTM – D-412
  - c. Dry film thickness @ 2 gals. Per 100 sq. ft. is 31 mils
5. OR7K: a two component, 100% solids, 0 VOCs sprayed in place Polyurea elastomeric coating system. It is a flexible, tough, chemical resistant and waterproof membrane. This system requires plural component dispensing equipment.
  - a. Tensile Strength – 2300 PSI, ASTM D-2370
  - b. Elongation – 220% minimum, ASTM D-2370
  - c. Moisture Vapor Transmission – 0.025 @ 30 mils of thickness, ASTM E-96

2.02 DELIVERY AND STORAGE

- A. Materials shall be delivered in their original, tightly sealed containers or unopened packages, all clearly labeled with the Manufacturer’s name, file number and lot numbers.
- B. All storage and handling of supplied products shall be in strict compliance with the client’s directions so as not to interfere with daily operations and also those regulations of all local, state and federal guidelines.

2.03 WARRANTY

- A. Upon the successful completion of the installed coating system, if applicable, the proper submitted pre-JOB and warranty paper work, daily quality control reports, photos and final inspection for the completed project, any possible noted defects found during the final inspection and payment in full to Contractor of Record and Oak Ridge, the owner shall receive a warranty from Oak Ridge Foam and Coating Systems, Inc.

## PART 3 – INSTALLATION

### 3.01 SURFACE PREPARATION

- A. Preparation shall include all requirements specified by Oak Ridge Foam and Coating Systems, Inc. to insure proper adhesion of specified system to the existing substrate. In all cases, the substrate shall be clean, dry and free of contaminants.
- B. Preparation shall include, but not limited to the following:
  - 1. All unnecessary and non-functional equipment and debris shall be removed from the roof, deck, wall or other acceptable substrate.
  - 2. The substrate must be clean, dry and stable. 'any loose existing substrate shall be completely removed before start-up of new coating system installation. This includes loose dirt and other contaminants that interfere with the proper cohesive bond of the specified coating system. Method of cleaning may include but not limited to Aqua Vacuuming, mechanical grooming, pressure washing and mechanically air blast. Consult with Oak Ridge for recommended prep work. Allow the cleaned surfaces to completely dry before proceeding with the proper applications if applicable to the existing substrate.
  - 3. The entire substrate, if applicable shall receive a primer coat at a minimum rate of 175 sq. ft. per gallon. Allow the primer to completely dry before proceeding with additional applications. Use the scratch test to determine if the primer is cured.
  - 4. Ridge caps, roof penetrations, vent stacks and other related roof mounted accessories are to be flashed and in compliance with Oak Ridge's guidelines. The Contractor of Record is to make every effort to eliminate all ponds of water on the substrate surfaces prior to any coating application. Area of terminations, penetrations, curbs, etc., shall have the coating system extend up the vertical a minimum of three inches and be neatly terminated.

### 3.02 COATING APPLICATIONS

- A. Follow Oak Ridge's instructions in strict compliance with respect to the specified coating system listed herein to the supplied specification for maintenance coating applications.
  - 1. ORACR – MINIMUM RATE OF APPLICATION – 1 1/2 GALLONS PER 100 SQ. FT. or 14.4 dry mils/coat. The estimated number of coats is three.
  - 2. ORHS95 – High solids Silicone – Minimum rate of application – 2 gallons per 100 sq. ft. or 32 dry mils. The estimated number of coats is two and three if granule application required at 50lbs per 100 sq. ft.
  - 3. OR78LS – MINIMUM RATE OF APPLICATION IS 1.5 TO 3.25 GALLONS PER 100 SQ. FT. DEPENDING ON TYPE OF REQUESTED WARRANTY, IF GRANULES ARE REQUIRED AND REQUIREMENT OF DRY MIL THICKNESS.
  - 4. ORAR-1, ORAL-1 – AROMATIC/ALIPHATIC MOISTURE CURED URETHANE – MINIMUM RATE OF APPLICATION IS 11.2 MILS PER 100 SQ FT. PER GALLON OF COATING. WARRANTY IF 10 YEARS REQUIRES A MINIMUM OF 32 MILS.
  - 5. OIRSLM – POLYUREA, MINIMUM REQUIREMENT IS 50 DRY MILS OR 3.25 GALLONS PER 100 SQ. FT.