



## Restoration Coatings Guide Spec for Silicone

May 2020

*This Guide-Spec represents RoofTite™ requirements for restoration of various existing roofing systems with the ROOFTITE coatings and accessories.*

*A thorough investigation of the existing roof must be performed by a qualified representative of the building owner. The investigation is to assess the condition of the roof and to determine any needed repairs prior to commencing the restoration work. The RoofTite applicator shall assess the condition of the roof surface to determine the level of preparation and repairs needed. The contractor shall also perform various adhesion tests to determine whether the use of primers will be required.*

### **PART I      GENERAL**

#### **1.01      Description**

This restoration system utilizes the application of RoofTite Silicone coating after thoroughly preparing the existing roof surface to receive the new coating. An initial assessment is performed by the Applicator to evaluate the condition of the roof surface and perform adhesion tests to determine the cleaning and priming requirements. After preparation of the existing roof surface, the coating is applied to achieve the desired dry film thickness.

Expected Coating	Minimum Dry Film Mil Thickness
	Silicone Coatings
10 Year	20 mils
15 Year	25 mils
20 Year	30 mils

#### **1.02      Applicability**

- A. The restoration coating is intended to enhance and extend the service life of an existing sound and watertight roof or those that may experience occasional minor leaks. The system is not suitable for the restoration of roofs which have exceeded or are approaching the end of their service life and require substantial repair.
- B. The assessment and examination of the existing roof surface to be restored shall be performed by the RoofTite Applicator or RoofTite Representative. The assessment and examinations shall focus on the condition of the roof, surface preparation required and the components to be restored.
- C. When in-depth investigation is needed to assess the entire existing roof system, a roof consultant or qualified representative shall be obtained by the building owner to conduct such investigation. The investigation will identify all necessary system repairs prior to commencing restoration work.

#### **1.03      Quality Assurance**

- A. Moisture surveys are strongly recommended, when moisture entrapment is suspected, on roofs installed over vapor barriers, or existing membranes that may have experienced a leak.
- B. Initial sampling and core cuts may be collected by the RoofTite Applicator for moisture analysis. Detailed moisture surveys may be conducted by a qualified third-party using IR scans, nuclear scans or by taking core cuts.
- C. When applying the coating restoration system over asphaltic roofs, modified bitumen, a cap sheet or metal roofs with rust, the use of RoofTite Prime-Tek Bleed Block primer is strongly recommended even if an adhesion test yields acceptable value.

**Note:** For asphaltic roofs, RoofTite Prime-Tek Plus Bleed Block primer will help prevent bleed through and the possible staining of the new coating.

#### **1.04 Restrictions and Exclusions**

This restoration coating system is not suitable over roofs with severely ponded conditions or those which are nearing the end of their service life and require substantial repairs.

#### **1.05 Job Conditions**

Compatibility to chemical exposure will depend on type of coating used. RoofTite should be contacted for verification of compatibility with chemicals or specific waste products that may come in contact with the roofing system.

**Caution:** Surface moisture and icy conditions are not easily detected on lighter color membranes (white, tan, gray, etc.) especially those located in cold regions. The roof surface may become extremely slippery and care shall be exercised when accessing the roof in the early morning hours (dew formation), any time after rain or during the winter. The use of sunglasses is strongly recommended when reflective coatings are used as the final coat.

#### **1.06 Product Delivery, Storage and Handling**

Refer to RoofTite Product Data Sheet for application of project specific product delivery, storage and handling requirements.

### **PART II PRODUCTS**

#### **2.01 General**

The product components of this RoofTite Restoration Coating System are composed of RoofTite products or those accepted by RoofTite as compatible with this roofing system. The installation, performance or integrity of products by others, **when selected by the specifier and accepted as compatible**, is not the responsibility of RoofTite.

#### **2.02 Coatings**

**RoofTite Silicone Coating** consists of an elastomeric, liquid applied material, domestically engineered and produced. The coating can be installed in one or multiple coats. The product is suitable for application through airless spray equipment, roller, spreader bar, squeegee, or brush.

#### **2.03 Primers**

RoofTite Prime-Tek Epoxy Primer, RoofTite Prime-Tek Acrylic General Purpose Primer (Black) and RoofTite Prime-Tek Plus Bleed Block Plus Primer (Red) are able to be used with this restoration coating system.

#### **2.04 Other RoofTite Products**

RoofTite Seal-Tek Silicone Mastic, RoofTite Seal-Tek Silicone, RoofTite Seal-Tek Micro, RoofTite Seal-Tek Reinforcing Fabric and RoofTite Prime-Tek Membrane Cleaner are used with this restoration coating.

#### **2.05 Other Related Products**

Granules, Rollers with 1/2" Nap, Brushes, 2,000 psi rated power washer, Detergent

### **PART III EXECUTION**

#### **3.01 General**

- A. Safety Data Sheets (SDS) must always be on location during transportation, storage and application of materials. The applicator shall follow all safety regulations as recommended by OSHA, and/or other agencies having jurisdiction.
- B. Comply with building owner requirement for onsite material storage and campus regulations. Place dumpster and other equipment in areas which have been designated by the building owner.

- C. The worksite must be kept in an organized and in orderly fashion. All waste products must be removed and disposed of, in accordance with local ordinances.

### **3.02 Surface Inspection**

The assessment and examination of the existing roof system to be restored shall be performed by the RoofTite Applicator or RoofTite representative. The assessment and examinations shall focus on the condition of the roof surface and the components to be restored.

When in-depth investigation is needed to assess the entire existing roof assembly. A roof consultant shall be obtained by the building owner to conduct such investigation. Investigation shall identify all necessary system repairs prior to commencing restoration work.

**Note:** Consult **Attachment I** - "Assessment and Investigation" for the applicable guidelines for assessing various roof assemblies.

### **3.03 Substrate Preparation**

- A. Do not commence with surface repairs unless all system related issues and imperfections have been addressed by the building owner and their design representative.
- B. Clean and prepare surface to receive the restoration coating. Remove all dirt, loose and flaking particles, grease, oil, laitance, pollution fallout, and other contaminants that may interfere with proper adhesion.

### **3.04 Surface Repair & Detail Work**

Refer to RoofTite Spec and Detail document for Restoration Coating Surface repairs and detail work.

### **3.05 Coating Application**

- A. Do not apply coating if weather conditions will not permit complete cure (24-hour period) before rain, dew, fog or freezing temperatures occur.
- B. Using a high-pressure compressed air or an air blower, blow all dust, dirt and other contaminants off the treated roof surfaces.

### **3.06 Clean up**

- A. Allow coating to cure before subjecting the surface to traffic. Curing conditions will vary depending on temperature and humidity levels. Consult the specific Product Data Sheets for estimated cure time.
- B. When applicable, provide owner representative with instructions on accessing the roof following the coating application.

### **3.07 Roof Walkways**

Refer to RoofTite Technical Manual for Restoration Coating Roof Walkways

END OF SECTION

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