

Pro-Tech Silicone roof coating is a high performing protective barrier used for a variety of architectural surfaces and roofing substrates. Upon cure, Pro-Tech's silicone roof coating forms a durable, breathable, and waterproof roofing membrane that is highly resistant to degradation from heat, cold, UV light and natural weathering.

| Properties                                            | Test Method                    | Typical Value                        |
|-------------------------------------------------------|--------------------------------|--------------------------------------|
| Volume Solids, %                                      | ASTM D2697                     | 95                                   |
| Solids Content, %                                     | ASTM D2369                     | 96                                   |
| Initial Tensile Strength @ 73 F, psi                  | ASTM D2370                     | 266                                  |
| Initial Elongation @ 73 F, %                          | ASTM D412                      | 279                                  |
| Initial Tensile Strength @ 0 F, psi                   | ASTM D2370                     | 247                                  |
| Initial Elongation @ 0 F, %                           | ASTM D412                      | 248                                  |
| Elongation After 5,000 Hours Accelerated Aging @ 73 F | G 154 cycle<br>D 6694          | 194                                  |
| Elongation After 5,000 Hours Accelerated Aging @ 0 F  | D412                           | 229                                  |
| 5,000 Hours Accelerated Weathering                    | G 154 cycle / D6694            | Pass                                 |
| Permeance @ 73.4 F / 50% Rh, U's Perms                | ASTM E96                       | 6.3                                  |
| Wet Adhesion To SPF, pli                              | ASTM C794 / D903               | >=2                                  |
| Tear Strength, Die C, lbf/in                          | ASTM D624                      | 30                                   |
| Low Temperature Mandrel Bend @ -15 F                  | ASTM D522                      | Pass                                 |
| Specific Gravity @ 77 F                               |                                | 1.30 +/- 0.04                        |
| Tack Free Time                                        |                                | >=1-2 hrs                            |
| Skin Over Time                                        |                                | >=1-4 hrs<br>depending on Temp & %RH |
| VOC (EPA Method 24), g/L                              |                                | <50                                  |
| Flash Point                                           |                                | 75 C (167 F)                         |
| Temperature Stability Range                           |                                | -50 C to 176 C (-67 F to 350 F)      |
| Initial SRI Value                                     |                                | 109                                  |
| 3 Year Aged Solar Reflectivity                        | ASTM C1549                     | .73                                  |
| 3 Year Aged Thermal Emissivity                        | ASTM C1371                     | .89                                  |
| 3 Year Aged SRI Value                                 |                                | 90                                   |
| Shelf Life                                            | 24 months                      | 24 months                            |
| Final Cure Time                                       | NSF Certification Requirements | 30 days                              |
| Recoat Cure Time                                      | NSF Certification Requirements | 24 hours                             |
| Dry Film Thickness                                    | NSF Certification Requirements | 20 mils                              |

| Application Rate                                                    | Wet Film Thickness       | Dry Film Thickness       |
|---------------------------------------------------------------------|--------------------------|--------------------------|
| 1 1/2 gallons / 100 square feet<br>(5.7 liters / 9.2 square meters) | 24 mils<br>(610 microns) | 21 mils<br>(533 microns) |
| 2 gallons / 100 square feet<br>(7.6 liters / 9.2 square meters)     | 32 mils<br>(813 microns) | 28 mils<br>(711 microns) |
| 2 1/2 gallons / 100 square feet<br>(9.5 liters / 9.2 square meters) | 38 mils<br>(965 microns) | 36 mils<br>(914 microns) |

## Installation:

**Clean:** Roof must be clean, dry, structurally sound and free of loose particles, dirt, dust, oil, frost, mildew and other contaminants. Damage to the underlying roof system, such as cracks, openings, holes, etc. should be properly repaired prior to application. Saturated substrates must be removed and repaired appropriately. Use of Pro-Tech Silicone roof coating should verify that suitable adhesion can be attained to all existing roofing materials to be coated prior to large scale application of the coating. It is recommended that a test patch be cleaned and coated with Pro-Tech silicone roof coating to verify the effectiveness of the asphalt bleed blocking method and adhesion to the surface(s).

**Prep:** Pro-Tech Silicone roof coating should be applied as received; dilution with a solvent or power mixing is not recommended. If settling in the package has occurred, gently stir the the material prior to use, taking care to not mix air into the material. Take appropriate precautions to cover open containers during use if the container will not be quickly or fully used, to minimize formation of skin. Pro-Tech Silicone roof coating should be sprayed or rolled ensuring uniform build and thorough coverage and is typically applied in one coat. If applying in multiple coats, allow adequate time between each coat for the coating to cure. Final cured film thicknesses must be free of voids, pinholes, cracks or blisters. Care should be taken to avoid overspray onto adjacent building materials, vehicles, plants, etc. To control overspray, avoid spraying in winds that may cause drift. Surfaces not intended for coating should be masked or covered. Overspray can be cleaned up before it has cured by wiping alternately with solvent such as mineral spirits and dry rags. Cured material can be removed from surfaces with a razor blade, or scrubbed off with steel wool or synthetic abrasive pads and solvent.

Pro-Tech Silicone can be applied throughout the year as long as the substrates being coated are completely dry. Frost and/or moisture can interfere with adhesion and result in delamination. Pro-Tech Silicone coating reacts with atmospheric moisture to cure. Lower temperatures will lengthen the skin over, tack free, and ultimate cure time, and may require an overnight cure in winter months to allow a topcoat application to proceed. Higher temperatures, even in dry desert conditions, will accelerate the cure rate and decrease the working time of the coating.

Inclement weather may negatively affect uncured Pro-Tech Silicone coating by displacement of uncured material; therefore, application of coating should not proceed if heavy rain, hail or snowfall is impending or expected before the coating cures.