



ROOF LOCK PRO 100% Silicone Waterproof Coating

Roof Lock Pro 100% Silicone Waterproof Coating is a professional-grade, high-performance, solvent-free, high-solids, water-free, and asphalt-free roofing material, and also a non-slump waterproof sealant for construction. It meets waterproofing requirements and serves as a sealant for horizontal surfaces. Roof Lock Pro cures at room temperature, forming a highly elastic rubber film with excellent adhesion to concrete, metal, and other coating materials on the roof. It is suitable for application on a wide range of roof types to provide waterproofing, heat reflection, and cooling.

ADVANTAGES

- Excellent UV resistance — built to withstand direct sunlight exposure outdoors.
- Temperature resistance range of -60°C to 120°C — maintains flexibility even in severe cold winters.
- High gloss finish with a high solar reflectance coefficient.
- Resistant to acid rain and concrete alkali.
- Excellent elasticity and high elongation at break.
- No solvent, no water, and no asphalt.
- Outstanding weatherproof performance — rated service life of 30 years+.

TECHNICAL DATA

Color	Grey, White, Black (custom colors available)
Appearance	Thick Liquid
Density (g/mL)	1.20 ± 0.05
Brush Thickness (mm)	Each layer is at least 1 mm
Crack Repair	Maximum width 5 mm; dries to 2.5 mm thick
Surface Dry Time	20–50 minutes
Max. Tensile Strength	≥ 1.8 MPa
Elongation at Break (2mm thickness)	≥ 250%
Solids by Weight	≥ 90%
Solids by Volume	≥ 90%
VOC	≤ 60 g/L
Water Vapor Transmission Coefficient	≤ 6 perms
Initial Solar Reflectivity (Brilliant White)	≥ 110
Solar Reflectance	0.90 (ASTM C1549-16 (2022))
Hemispherical Emittance	0.86 (ASTM C1371-15 (2022))

** Sample curing conditions: 23°C × 50% RH × 28 days.



USE OF TOOLS

Roof Lock Pro can be applied using brushes, roller brushes, or airless spray equipment.



Brush



Roller



Sprayer

SUBSTRATE PREPARATION

New Roofs

The roof surface must be flat and free of impurities. Clean up loose sand, soil, and other debris on the surface. Local potholes need to be repaired and leveled (large potholes with concrete repair; small potholes can be filled directly with dry, clean sand and gravel mixed with the coating for smoothing), then apply the Roof Lock Pro silicone coating.

Old Roofs

For roofs with existing waterproofing coating, roll-roofing, etc., the aged surface layer can be shoveled or sanded until fully clean. Sections with no aging and good adhesion do not need to be removed — the new coating can be applied directly over them. Local potholes can be filled directly with dry, clean sand and gravel mixed with silicone coating for smoothing, then apply the Roof Lock Pro coating.

Walls / Sloped Roofs

The substrate surface must be flat and free of impurities. Clean up loose sand, soil, and other debris. Local potholes need to be repaired and leveled (large potholes with concrete repair; small potholes filled directly with dry, clean sand and gravel mixed with silicone coating for smoothing), then proceed with coating application. If the surface has old waterproof material, follow the same treatment steps referenced above before applying the Roof Lock Pro coating.

CONSTRUCTION METHOD

Flat Roof Construction

1. Pour the coating into a bucket, mix well with a wooden stick or mixer, then pour it onto the roof and spread evenly with a roller or brush. Scrape flat so the film self-levels and spreads evenly; a wet-film thickness of 1–2 mm is preferable.



2. For large roofs, it is recommended to spray the coating directly with spray equipment to improve efficiency. Wet-film thickness should be 1–2 mm; the spraying method produces a more uniform thickness.
3. Check the coating film after 24 hours of construction (this can be extended in winter, provided the coating is dry and can be walked on) to confirm it is flat and even; any locally thin areas can be recoated. Repairs should be completed within 24 hours of the coating curing, and can be extended to 48 hours in winter — too long an interval may prevent proper bonding of the coating film.
4. It is recommended to apply one coat, achieving a thickness of 1–2 mm in a single application.

Walls / Sloped Roofs Construction

1. Pour the coating into a bucket, mix well with a stick or blender, then apply evenly with a roller or brush, or spray with spray equipment. A single layer thickness of about 1 mm is suitable for brushing or spraying; a thicker application may sag or hang. Allow the surface layer to cure (1–2 hours) before applying the second coat. The interval between coats should not exceed 4 hours.
2. Depending on the degree of coating buildup and the thickness of the first coat, a second brushed or sprayed coat is recommended to achieve the required thickness.

PRECAUTIONS

1. Silicone coatings have poor adhesion to some waterproof membrane materials, such as rubber, polyethylene, polypropylene, EPDM, PE membrane, and fluorocarbon materials. Test adhesion beforehand and consult your distributor if adhesion issues arise.
2. Suitable construction temperature is 5–30°C. Not suitable for construction below 5°C in winter, as surface drying and curing become very slow. Avoid construction in high summer heat, as surface drying above 40°C is very fast and makes construction difficult.
3. Not suitable for construction on rainy days. Frozen or frosted roof and wall surfaces are not suitable for application. Avoid rainwater contact with the coating for 24 hours before and after construction.
4. Before the coating is fully cured (generally 3 days in summer, one week in winter), avoid heavy foot traffic or impact.
5. Reseal the container tightly with the lid for any leftover product. After removing the surface film before next use, the uncured coating underneath can still be used.
6. Wear gloves, a mask, goggles, and/or protective clothing during construction. Read the SDS before beginning work and take safety precautions in advance.
7. If coating contacts skin, wipe off with a dry cloth first, then clean with hand sanitizer. Tools can be cleaned with kerosene or paint thinner after use.



PACKAGE

5 U.S. Gallons (18.9L) per bucket.

STORAGE

Shelf life: 12 months in original, unopened packaging.

Recommended storage temperature: 10°C–25°C (not to exceed 45°C).

- Dry, cool storage conditions help extend shelf life.
- Shelf life may vary depending on packaging materials.
- Refer to the SDS when handling, and comply with all local regulations.

Notice: Read the Safety Data Sheet (SDS) for precautionary measures and safety recommendations prior to application. All use of this product should comply with local laws and regulations.



ROOF LOCK PRO — 100% Silicone Roof Coating — 5 Gallon (18.9L)