

MANTASIL 430 Premium High Solids Silicone Coating

DESCRIPTION

Mantasil 430 High Solids Premium Silicone Roof Coating stands out with its unique features. It is a single-component, silicone-based coating that can be applied directly to roof substrates. Its Advanced Bond Technology cures quickly when exposed to moisture, providing excellent long-term protection against harsh weather conditions like ozone, UV rays, and extreme temperatures, ensuring the safety and durability of the roof.

FEATURES

- Highly Reflective cooling of the building
- Temperature ranges from 65 °F to 120 °F (18.3 °C to 49 °C)
- Ponding water-resistant
- VOC compliant – solvent-free, Mold and mildew resistant
- Advanced Bonding with roof substrates as it cures
- Excellent adhesion and flexibility
- Applied by spray, roller, or brush.

USAGE

- Aged Built-Up Roofing (BUR) and Modified Bitumen (MB)
- Aged single-ply substrates: TPO, EPDM, and PVC roofs
- Spray Polyurethane Foam (SPF) roofs
- Metal roofs; Concrete roofs; Recoating previously coated roofs
- Use MantaPrime #230 Bleed Block to prevent bleed-through, discoloring, and staining over new or aged BUR and modified bitumen membrane.

PREPARATION

- Ensure the roof surface is clean, dry, and free of debris, dirt, oil, loose granules, and peeling paint.
- Clean rusty metal with a wire brush and prime with MantaPrime Multipurpose Primer 235 before application.
- Remove mildew and stains with a Manta Clean 101 (2:1 water to MantaClean ratio) and rinse thoroughly.
- Pressure washing is highly recommended for optimal results (use a wide fan tip to avoid damaging the roof).
- Repair all leaks and cracks with appropriate materials like polyester reinforcing fabric and MantaFlash #330 silicone butter grade mastics.
- Allow repairs to cure for 24-36 hours before applying the coating.

APPLICATION

- Mixing: Mix before application to ensure uniform color and consistency
- Surface Prep: All surfaces to be coated must be clean, dry, and
- Coatable: Power wash and prime may be necessary to enhance adhesion. Ensure the surface is completely dry.
- Application: Mantasil 430 must be applied directly to any clean, dry surface. Polyurethane foam should be coated within 24 hours of application. Apply by spray, brush, or roller as received. If rain is expected within 1 hour of application. Mantasil 430 may be applied at lower temperatures. However, the cure time will be extended.

TECHNICAL DATA

SOLIDS BY VOLUME:	96% ± 2%, ASTM D-2697
ELONGATION:	270.5 % ± 25, ASTM D-2370
TENSILE STRENGTH:	329.5 psi ± 50, ASTM D-2370
TACK FREE TIME:	2-4 hours
DURAMETER HARDNESS:	55 ± 5 points (Shore A)
MAXIMUM SURFACE TEMP:	180°F
FLASH POINT (COC):	> 290°F, ASTM D-92
DRY RECOAT	6 Hours
FULL CURE	72 Hours
PERMEABILITY:	5.0 perms
VOC:	< 50 Grams/Liter, ASTM D-3960,
INITIAL SOLAR REFLECTIVITY	0.87
INITIAL THERMAL EMISSIVITY:	0.90
WATER ABSORPTION	.1% after 2 weeks at 75°F
WEATHRING	No Degradation after 5000 hours
SRI INITIAL	115
SHELF LIFE:	18 months
CLEAN UP:	Mineral Spirits

STORAGE AND DISPOSAL:

- Store in a cool, dry place in well-sealed containers. Maximum storage temperature is 100.4°F (38°C). Do not allow the product to freeze.
- Disposal: Dispose of contents and containers in accordance with local, regional, national, and international regulations.
- **Note:** Proper storage and disposal are essential for maintaining the product's quality and safety. Please follow all applicable regulations to ensure proper handling.

SAFETY PRECAUTIONS:

- Causes skin irritation and allergic reactions.
- May cause severe eye damage, genetic defects, and cancer.
- Harmful with prolonged exposure.
- Follow all safety precautions on the product label and Safety Data Sheet (available at www.Mantarroof.com).

WARRANTY

Manta Roofing Products warrants that the material supplied will meet or exceed the physical properties as published. The contractor guarantees that workmanship will be free of defects in coating application. APPROXIMATE SHIPPING WEIGHTS INCLUDING CONTAINER:

5 gallons (18.9L)	55 lbs.
55-gallon drum (208.2L)	600 lbs.

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