



# Si92

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## PRODUCT DESCRIPTION

Rugged Coatings Si92 silicone elastomeric is formulated using a 100% silicone polymer that provides outstanding weathering, and superior reflectivity properties. Formulated to resist cracking and peeling, Si92 provides excellent waterproofing capabilities. The bright white finish reduces surface temperatures thereby minimizing thermal expansion and contraction. Under-the-roof temperatures are also reduced, lowering cooling costs. Rugged Coatings Si92 Silicone White Roof Coating is a premium silicone rubber roof coating is ideal for ponding water. Si92 is available in two sizes: a 5-gallon pail (SIRW100-P) and a 55-gallon drum (SIRW100-D).

## GENERAL USES

Metal, single ply, smooth BUR, APP, SBS, modified bitumen, polyurethane foam, cured concrete, existing asphaltic and elastomeric roof coatings and other approved surfaces including vertical walls and masonry. NOT for use on roof shingles. Si92 can be applied directly over most existing, aged single-ply membranes including PVC, TPO, EPDM, and Hypalon pending positive results from an in-field adhesion test.

## PRODUCT CHARACTERISTICS

Color	White, Gray, or Tan
Vehicle Base	100% Silicone
Weight per Gallon	11.1 lbs
Solids by Weight	96%
Solids by Volume	95%
Viscosity (ASTM D 562)	10,000 cps
Dry Film Thickness (@ 1 gal/100 sq. ft less surface absorption)	15 mils
Dry Time (Drying Time is temperature, humidity and film thickness dependent)	
Rain Safe	60 minutes
Exposure	4-6 hours
Between coats	6 hours minimum
Full cure @ 70°F, 50% relative humidity	72 hours
VOC	<50 g/L
Clean Up	Virgin Mineral Spirits or Naptha

## PERFORMANCE CHARACTERISTICS

Elongation	270%
Tensile Strength	240 psi
Tear Resistance (ASTM D 624)	23 lbs/linear feet
Permeance (ASTM E 96 Procedure BW)	3.4 US perms
Solar Reflectance Index	110
Reflectivity	0.87
Thermal Emissivity	0.89

## COLORS

WHITE

GRAY

TAN

CUSTOM COLORS: extended pricing and lead times apply.

## APPLICATION NOTES

### 1.Brush/Roller

### 2. Airless Spray

- Hydraulic pump with minimum pressure of 5000 psi
- Graco 933 would be a good example.
- Spray tip: Reversible, self-cleaning tip without diffuser pin.
- Size .033" with a fan angle of 60° (ex. 633)
- Hose Size: At 300' total hose length, use 250' of 3/4" to 1/2" 10" swivel whip and 3/4" hose.
- General: The longer the hose, the smaller the tip orifice size.

## APPLICATION CONDITIONS

Do not apply below 40°F (10°C) or when rain is forecast. Applications during periods of low temperature or high humidity (Maximum humidity level: 85%) will shorten dry time. Allow 2-6 hours for coating to dry prior to being subjected to rain, heavy dew or temperatures below 40°F.  
KEEP FROM FREEZING. Refer to product application bulletin for detailed application information.

## SURFACE PREPARATIONS

It is very important that you apply roof coatings and sealants to a clean, dry roof. Dirt, debris and grease can interfere with the ability of a product to adhere fully to the surface of your roof. Surface must be pre treated with manufacturers approved cleaner then power washed to remove dirt, loose paint and rust, excessive chalk, and other foreign matter which could prevent proper adhesion. All surfaces must be dry and free of dust, dirt, oil, loose materials, peeling paint etc. Rusty metal must be cleaned and primed with a rust inhibiting primer. Surfaces with mildew or biological growth must be cleaned with a bleach solution (2 parts water to one part bleach). Clean and pressure wash the roof. A mild detergent with broom is recommended on single ply membranes. Use only a wide fan spray tip. Previously coated surfaces must be completely dry and cured. Contact RUGGED COATINGS with material type questions. Once dry, prime surface as required. Next, treat all penetrations, drains, flashings, ponding, terminations, curbs, etc., with approved RUGGED COATINGS sealant and or reinforcement as specified by manufacturer. See website for specifications and details.

## DRY TIMES

Coating dries in 2 - 4 hours and fully cures in 8 - 24 hours at 70 °F and 50% relative humidity at 1.5 gallons per square. Thicker films, poor air flow and low humidity will increase dry times. Seal container when not in use. Do not walk on coating until fully cured.

## APPLICATION

Si92 is a moisture-cure product for exterior use only. Curing is accelerated by humidity and moisture, so the surface must be free of moisture, dew, or frost, especially when applying in temperatures between 32°F and 40°F. The ideal application temperature is 40°F to 120°F. The product cannot be thinned and begins to cure immediately upon opening. It should be used completely within one day. Wear protective gear (clothing, gloves, eyewear) during application. Apply a uniform coat with a 3/4" nap roller or brush; for spray requirements, contact Rugged Coatings. A single coat covers 100 square feet with 1.5-4 gallons. If applying multiple coats, wait 4-24 hours between coats or until the first coat is dry to the touch. For warranty information, visit [www.RuggedCoatings.com](http://www.RuggedCoatings.com).

**SLIP WARNING / EXTREMELY SLIPPERY** If there will be foot traffic on roof after installation (and cured), applicator may embed 40 - 60 lbs. of #11 ceramic granules per 100 sq. ft into top layer of coating to create a non-skid finish or walkway, walkway may be a safety color. Surfaces without granules are slippery when damp or wet. **Post coating, Do not walk on pitched roofs if there is any present moisture without proper safety equipment.**

## PRIMERS

A RUGGED COATINGS approved bleed blocking primer should be used on applications over asphalt substrates to help limit bleed through or discoloration. Asphalt, single ply membranes and metal should be field adhesion tested to determine if primer is needed. NOT for use on roof shingles. An adhesion peel test should be performed to ensure proper adhesion prior to application.

Other roof substrates including EPDM, TPO, PVC, metal or asphalt may require primer before application. All Mod Bit and Asphalt surfaces must be aged and no substances present that can bleed through and cause discoloring. All single ply such as TPO, PVC and EPDM must be aged for better adhesion.

## CLEAN UP

Brushes and rollers may be washed with VM&P, NAPTHA or VIRGIN MINERAL SPIRITS. spray equipment should be thoroughly flushed with MN&P, NAPTHA or VIRGIN MINERAL SPIRITS and stored with pump manufacturers suggested storage media.

## STANDARDS AND COMPLIANCE

Si92 passes ASTM D 6694 and is Miami-Dade Approved, UL Classified, CRRC Rated and is California Title 24 Compliant.

The following certifications and listings are pending:



Miami-Dade County  
Product Control Approved  
NO. 23-0605.01

## WARRANTY AND DISCLAIMER

**Rugged Coatings** warrants Si92 Rubberized Silicone Roof Coating to be free from defects in materials and manufacturing. Under this warranty, we will provide, at no charge, a quantity of Si92 Rubberized Silicone Roof Coating sufficient to replace any Si92 Rubberized Silicone Roof Coating proven to be defective when applied according to our written instructions and in applications recommended by us as suitable for the product. THIS LIMITED WARRANTY IS THE BUYER'S SOLE AND EXCLUSIVE REMEDY AGAINST RUGGED COATINGS REGARDING THE PRODUCT. IN NO EVENT SHALL RUGGED COATINGS BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL, INDIRECT, PUNITIVE OR OTHER DAMAGES ARISING FROM THE USE OR PERFORMANCE OF THE PRODUCT. Since methods of application and on site conditions can affect performance, RUGGED COATINGS MAKE NO OTHER WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE REGARDING THE PRODUCT, AND RUGGED COATINGS HEREBY DISCLAIM ALL SUCH OTHER WARRANTIES. The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of Rugged Coatings. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of the publication. Consult your Rugged Coatings Technical Representative to obtain the most recent Product Data **Information**. If further information is needed, contact Rugged Coatings Technical Service at 205-440-4996.