PRODUCT BROCHURE
ROOF COATINGS

SILICONE ROOF COATING

CSL 461 RC

One coat of high solids silicone that seals the roof and keeps the building cooler.

One part | 94% solids | Withstands ponding water | White



CSL reference roof coated with 461.

VOLUME SOLIDS

94%

Nearly all of what goes on stays on. One coat builds to 0.5 mm dry.

COOL ROOF · CRRC 1368-0002

SRI 107.9

Solar reflectance 0.856. CSL reports 7 to 9°C cooler inside a coated building.

ELONGATION

282%

At 23°C, and 330% at minus 18°C. It moves with the sheets as they heat and cool.

SERVICE RECORD · PER CSL

20+ years

More than 20 years on roofs in North America.

Exclusive distributor of CSL Silicones in Southern Africa

+27 (0)31 002 7376
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WHY ROOFS KEEP LEAKING

Fasteners, laps and seams open up as the sheets heat and cool. Flat concrete roofs hold water and the cracks follow.

Patching chases one leak after the next. A new roof means scaffolding, downtime and a big bill.

HOW 461 RC FIXES IT

01

One seamless coat

At least 0.5 mm dry over fasteners, laps and seams. Built wet on wet where a roller can't reach full thickness in one pass.

02

Ponding water is fine

461 RC withstands ponding water, per the TDS. Vapour permeance of 4.44 perms lets the roof breathe.

03

A cooler building

Bright white with an SRI of 107.9, still 88.9 once soiled. Less heat through the roof.

WHAT IT GOES OVER

Concrete and screed	Clean and sound, no laitance. No primer after a passing test patch.
IBR, Chromadek, corrugated	Remove loose rust and coating. Test patch first.
Existing coatings, single ply	Overcoat after a passing test patch.
Spray polyurethane foam	ASTM D6694 listed.
Bitumen and torch on	Ask TSS before you specify.

WHERE IT GOES

- Factories and warehouses
- Mine and plant buildings
- Data centres and cold stores
- Commercial and office roofs
- Concrete roof slabs and parking decks

NOT FOR

- Asphalt shingles
- Drinking water contact (white is NSF P151 listed for rainwater catchment)
- Rusted through sheets or rotten decking: fix the roof first
- Regular foot traffic without a walkpad path

COAT IT RIGHT

1 **Wash the roof**
Power wash with detergent, rinse and let the roof dry fully.

2 **Make it sound**
On metal, take off loose rust and loose coating. On concrete, remove laitance, dust and grease.

3 **Test patch**
Check adhesion on the actual roof, as CSL asks for all metal and previously coated roofs.

4 **One coat**
Airless spray is best. Brush, roller or squeegee work with extra passes in the same session. At least 0.5 mm dry.

5 **Walkpad where people walk**
Lay a 462 RC walkpad path to plant and access points. Wet silicone is very slippery; use fall protection.

APPROVALS AND LISTINGS

ASTM D6694 | UL listed | FM approved maintenance coating | CRRC 1368-0002 | Title 24 | Miami Dade, FL41816-R2 | NSF P151 (white)

TECHNICAL DATA

Performance	
Volume solids	94%
Elongation	282% at 23°C, 330% at minus 18°C
Solar reflectance	0.856 initial, 0.723 soiled
Emittance	0.89
SRI	107.9 initial, 88.9 soiled
Vapour permeance	4.44 perms
Temperature stability	Minus 60°C to 200°C

Application	
Dry film	0.5 mm min (20 mil)
Coverage	About 0.5 L/m^2
Air and surface	5°C to 60°C
Skin time	About 68 min at 0.5 mm
Recoat	4 to 6 h
Full properties	7 days
Accessories	462 RC walkpad, 469 granules

Coverage is before losses. Apply at least 3°C above dew point. CSL gives a written product warranty where the applicator has been trained by TSS. We can put you in touch with one.

Full product page, TDS and FAQ:
tssupplies.co.za/roof-coatings

ALSO FROM TSS

ONE SUPPLIER FOR SILICONE COATINGS AND SEALANTS

Every product comes from CSL Silicones in Canada, with the test data to back it and TSS support on site.

579 CM

RUST

Si-COAT 579 CM Corrosion Coating

One coat over prepared rust on above ground steel. Outperformed 28 other coatings in a three year Florida Fence Test.

570 HS

FLASHOVERS

Si-COAT 570 HS Insulator Coating

RTV silicone for insulators, bushings and arresters. Passed both IEC TR 62730 tests, reports on request.

316 SL

FAILED JOINTS

CSL 316 SL Joint Sealant

Self levelling silicone for concrete joints on roads, bridges and airports. 10 year warranty.

532 AG

GRAFFITI

Si-COAT 532 AG Clear Anti Graffiti

Clear, low VOC coating. Walls, trains and signs keep their look, and graffiti cleans off.

SEND US THE PROBLEM

Photos, a rough size and where it is. We'll come back with the right product and how to apply it.

Scan to send it

Technical Solution Supplies

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