CoolCote

JUST COOL IT

TECHNICAL DOCUMENTATION

LABORATORY + QUALITY-CONTROL EVIDENCE

TECHNICAL PERFORMANCE SUMMARY

Results available as of October 2026. Prepared for professional coating contractors, consultants, and technical evaluators.



READ THE FORMULATION SCOPE

Optical results: sample GT4325 ("Cool Coated Sample V1"). Mechanical results: earlier formulations A+ and C. Production QC: supplied CoolCote D specification/batch sheet. These sources are not proof that every result has been repeated on commercial Formula D.

01 SOLAR / THERMAL OPTICS

88.5%

SOLAR REFLECTANCE

ASTM C1549 | GT4325 V1

90.4%

THERMAL EMITTANCE

ASTM E408 | GT4325 V1

111.44

SOLAR REFLECTANCE INDEX

ASTM E1980 | h = 30

Surface Optics Corporation, Job 8735-MP, Sept. 30, 2026. As-received, uncleaned V1 sample. Calculated SRI by convection coefficient: 111.323 at 5; 111.38 at 12; 111.44 at 30 W/m²·K.

02 ADHESION + SCRUB SCREENING

Marschall Laboratories | October 9, 2026 | Historic A+ and C formulations

SCRUB RESISTANCE

ASTM D2486 • cycles to failure

Formula A+

422.5

Formula C

831.5

Average of two runs after 1 week dry: A+ = 422.5; C = 831.5.

CONCRETE PAVER ADHESION

ASTM D7234 | 4 mil WFT | 1 week dry

2,534 psi A+

2,722 psi C

ASTM D3359 Method A: 5A (both)

Failure mode: concrete substrate failed; no failure reported at coating-substrate interface.

Scope guardrail: Results describe only the listed samples, substrates, test methods and conditions. Scrub resistance is not the same test as abrasion resistance; SRI is calculated under a method defined for horizontal/low-slope surfaces, not a certified cool-wall rating.

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FORMULA D / SUPPLIED BATCH RECORD

PRODUCT QC + EVIDENCE TRACEABILITY

Supplied specification targets and example batch values; test method details for several physical properties were not included in the QC sheet.

QUALITY CHARACTERISTIC	TARGET / RANGE	BATCH
Viscosity	117–122 KU	**118 KU**
Weight per gallon	11.4–11.7 lb/gal	**11.5 lb/gal**
Gloss @ 60°	4–7	**6.1**
Solids by weight	54–57%	**56%**
Elongation	—	**288%**
Tensile strength	—	**108 psi**
CoolCote finish spread rate	100–125 sq ft/gal	—
CoolCote finish wet film	13–15 mils	—
CoolCote finish dry film	5–6 mils	—
Primer spread rate	150–200 sq ft/gal	—

Data source: "CoolCote D Specs & Quality Control" (supplied document). "—" means no target or batch measurement was provided; it does not indicate a failed result.

REQUIRES FORMULA D FILM-BUILD RECONCILIATION

The sheet lists 13–15 mil wet and 5–6 mil dry. At 100–125 sq ft/gal, theoretical wet film is about 12.8–16.0 mil. Confirm solids by volume, the approved applied thickness and acceptance tolerance with the manufacturer before treating these as final jobsite targets.

Website copy

Identifying pilot photo and caption omitted.
Technical content unchanged.

TECHNICAL APPROVAL / NEXT EVIDENCE

1. Link GT4325 and A+/C test samples to the commercial Formula D specification—or clearly retain them as historical evidence.
2. Re-test release Formula D at the actual specified film build, including primer-free acrylic panels where applicable.
3. Obtain the original Marschall lab workbook and a signed, manufacturer-approved current TDS.

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