COOLCOTE

EXTERIOR COOLING WALL COATING

Ready-to-use acrylic-based coating enhanced with ceramic microspheres and proprietary mineral architecture, designed for exterior vertical wall surfaces.



PRIME AS NEEDED | ONE FINISH COAT **NO DRY ACTIVATOR**

INTENDED USE

Above-grade exterior stucco, concrete, CMU/masonry and compatible previously painted walls. Application requires sound surfaces and verified coating compatibility.

PRODUCT SYSTEM

One CoolCote finish coat. Supplied in 5-gal pails; current white finish. Approved primer is the initial-release baseline; direct-to-acrylic application requires validation and written JCI approval.

FORMULA D | SUPPLIED QUALITY-CONTROL SPECIFICATIONS

PROPERTY	SPECIFICATION / VALUE	
Viscosity	117-122 KU	Batch: 118
Weight per gallon	11.4-11.7 lb/gal	Batch: 11.5
Gloss at 60 degrees	4-7 gloss units	Batch: 6.1
Solids by weight	54-57%	Batch: 56%
Elongation	288%	Method pending
Tensile strength	108 psi	Method pending
Finish spread rate	100-125 sq ft/gal	One finish coat
Nominal wet film thickness	13-15 mils	Verify final target
Primer spread rate	150-200 sq ft/gal	When specified

FILM-BUILD HOLD: The supplied QC sheet also reports 5-6 mil dry film thickness, but no current Formula D volume-solids value. DFT and WFT must be reconciled and approved before field release.

APPLICATION & PREPARATION

The coating is applied in one finish coat over a properly prepared, suitable substrate. Use approved primer by default until an exception is validated and documented.

PRIMER DECISION MATRIX | INITIAL COMMERCIAL RELEASE

Previously painted sound acrylic	Primer required at launch; primer-free only with written JCI approval
Existing elastomeric coating	Case-by-case; test adhesion / compatibility; primer generally required
Bare stucco	Approved masonry primer required after cure, pH and moisture checks
Bare concrete / CMU / masonry	Approved masonry primer; porous CMU may require block filler
Chalky / porous walls	Remove chalk and unsound film; prime after cleaning / drying
Repaired patches / skim coat	Spot prime at minimum; full-wall prime if uneven absorption
Glossy / low-porosity coatings	Clean and degloss; bonding primer or written exception

Recommended substrate verification: ASTM D4258 (cleaning); D4262 (surface pH); D4263 (moisture); D3359 (existing coating adhesion), as applicable. Acceptance criteria require JCI approval.

FIELD SEQUENCE | INSPECT - PREP - PRIME - MIX - COAT - VERIFY

01 INSPECT
Identify existing coating, adhesion, moisture, alkalinity, repairs and contaminants.

02 PREP
Remove loose paint/chalk; clean and dry; repair cracks and water intrusion.

03 PRIME / VERIFY
Apply approved primer unless JCI has granted a tested, written exception.

04 MIX
Uniformly stir factory-supplied wet coating; no cement, activators or thinning.

05 APPLY
One uniform finish coat at approved coverage / WFT; maintain a wet edge.

06 VERIFY
Document lot, weather, primer, gallons, film checks and completion photos.

STOP WORK: Do not coat wet, chalky, loose, contaminated or incompatible surfaces. Do not treat this TDS as approval for roofs, tile, walking surfaces or immersion exposure.

FIELD PARAMETERS & LIMITATIONS

ROLLER / BRUSH

Start with a 3/4-inch nap quality roller suitable for surface texture. Nylon/polyester brush for cuts and edges. Work uniformly and avoid overworking.

AIRLESS SPRAY

Use professional high-solids equipment with an approved tip/filter. 0.025-0.029 in is an industry comparator trial range, not CoolCote-approved until manufacturer testing.

APPLICATION CONDITIONS | PROVISIONAL PLANNING GUIDANCE

Conservative industry practice: work on clean, dry surfaces; target approximately 50-90 F ambient/surface temperature, surface at least 5 F above dew point, and avoid rain/heavy dew for at least 24 hours. These are NOT validated Formula D cure or rain-ready limits; follow written JCI/manufacturer specifications once published.

DATA INTEGRITY | PERFORMANCE PROVENANCE

DEVELOPMENT SAMPLE (NOT FORMULA D QUALIFICATION)

88.5%	90.4%	111.44
SOLAR REFLECTANCE	THERMAL EMITTANCE	CALCULATED SRI (30 W/m2-K)

Surface Optics Corp., Job 8735-MP, Sept. 30, 2026; sample GT4325 / Cool Coated V1. ASTM C1549, E408, E1980. Historical V1 sample - do not represent these values as independently verified for Formula D.

REQUIRED CONFIRMATIONS BEFORE COMMERCIAL RELEASE

- [ ] Current Formula D SDS, VOC, hazard status
- [ ] Volume solids + approved WFT/DFT
- [ ] Dry-to-touch, rain-ready and full cure
- [ ] Air/surface temp, RH and dew-point limits
- [ ] Approved primer SKU and recoat time
- [ ] Spray tip, filter, pressure, mix protocol
- [ ] Shelf life, storage and approved colors
- [ ] ASTM methods for tensile / elongation

RELEASE STATUS + WARRANTY

Technical-review draft only. The supplied QC sheet is not a signed batch certificate. The 20-year limited material warranty is subject to its own written terms and approved application procedures; it is not a guarantee of specific cooling-energy savings. No independent Formula D weathering, durability or optical certification is claimed here.

Basis: JCI Formula D QC sheet (Nov 2026); historical Surface Optics GT4325 V1.