CoolCote

CONTRACTOR TECHNICAL GUIDE

APPLICATION & INSTALLATION GUIDE

Current Formula D | Acrylic, ceramic + mineral coating | Designed for exterior vertical walls



ACTUAL COOLCOTE-PAINTED HOME

PRIME AS NEEDED • ONE FINISH COAT

NO DRY ACTIVATOR

Release policy: Approved primer remains the baseline for initial commercial use. Direct-to-sound-acrylic application is a future exception only after validation and written Just Cool It approval.

SIMPLE PROCESS. PROFESSIONAL DOCUMENTATION.

INSPECT | PREP | PRIME* | MIX | APPLY | VERIFY

* Primer applied by default. Primer-free use requires a formally approved exception.

100–125	~200	20 YEARS
SQ FT / GAL FINISH	SQ FT / GAL PRIMER**	LIMITED MATERIAL WARRANTY

** Primer planning rate for suitable surfaces; actual coverage depends on porosity and approved product. This document is a technical review draft until manufacturer sign-off.

START HERE

QUICK APPLICATION GUIDE

Use this page for the workflow, then follow the substrate matrix and the current approved product documents.

Commercial Formula D: one factory-supplied, ready-to-use acrylic-based coating enhanced with ceramic microspheres and mineral architecture. No cement, powder activator or field-added pigment. Do not dilute unless explicitly authorized.

1. **INSPECT**
   Identify substrate, moisture, chalk, prior coating, defects and hazards.
2. **PREP**
   Clean thoroughly; repair defects; allow compatible materials to cure and dry.
3. **PRIME / VERIFY**
   Use approved primer for initial release; direct-coat exception only in writing.
4. **MIX**
   Mechanically stir gently to uniformity; avoid entrained air and unauthorized additives.
5. **APPLY ONE COAT**
   Roll with 3/4-inch nap or manufacturer-approved spray setup; verify complete uniform coverage.
6. **VERIFY + RECORD**
   Inspect finish and logs; document batches, weather, film build and completion.

HOLD POINT: Do not begin a job if the final TDS has not established acceptable substrate conditions, weather limits, primer rules, minimum film build and required cure / rain-readiness times.

SYSTEM ELIGIBILITY

PRIME AS NEEDED

Initial commercial release: approved primer is the standard. The matrix defines future direct-coat pathways, not automatic waivers.

SUBSTRATE / CONDITION	INITIAL RELEASE	PREP / EXCEPTION LOGIC
Sound existing acrylic paint	PRIMER REQUIRED	Potential direct-coat exception only after adhesion / compatibility validation + written JCI approval.
Existing elastomeric coat	CASE-BY-CASE	Evaluate flexibility, condition and compatibility. Prime unless approved otherwise; remove unsound coating.
Bare cured stucco	PRIMER REQUIRED	Confirm cure, moisture and alkalinity limits; use approved masonry primer.
Bare concrete / CMU	PRIMER REQUIRED	Use approved masonry primer/sealer. Open-textured block may need compatible block filler.
Chalky / porous walls	PRIMER REQUIRED	Remove loose chalk; make surface sound. Primer is not a substitute for proper prep.
Repairs / skim patches	PRIME REPAIRS	Spot-prime at minimum; full-wall prime when absorption/texture differs.
Glossy / low-porosity	CASE-BY-CASE	Clean and degloss. Bonding primer generally required; direct use only if formally validated.

Important: An optional-primer claim is not an approval to omit primer today. JCI must define the exact eligible surface and written waiver before the first primer-free installation.

STEP 01 + 02

ASSESS & PREPARE

Coating performance starts with the substrate. Reject wet, unsound or contaminated walls before priming or finishing.

PRE-JOB CONDITION SURVEY

- Identify original substrate and existing coating.
- Check water intrusion, efflorescence, peeling, powdering, mold/algae and cracking.
- Document patch locations, prior sealers and repaired surfaces.

Website copy

Identifying pilot photo and caption omitted.
Technical content unchanged.

01 CHECK ADHESION

Test suspect existing coatings; use a representative test patch and written acceptance criteria.

02 REMOVE CONTAMINANTS

Remove dirt, oils, chalk, loose paint and efflorescence. Use substrate-compatible cleaners; rinse thoroughly.

03 REPAIR + DRY

Correct leaking joints and damaged stucco/masonry; allow patches, sealants and washed areas to cure / dry.

04 CONFIRM SUBSTRATE

Record masonry cure history, moisture and alkalinity per approved procedure; protect openings and landscaping.

STOP WORK: unresolved moisture sources, peeling / delaminated paint, active efflorescence, contaminated or friable substrates, unverified coating compatibility, or exposure outside approved TDS limits.

STEP 03 + 04

PRIME, MIX & SET UP

Field-simple application, with manufacturer-defined limits and a documented spray trial before production use.

PRIMER SYSTEM

Use an approved primer appropriate to the substrate. Record primer SKU, lot, substrate and coverage. Use a compatible block filler when required. Primer substitution, direct-to-substrate use and any change to recoat interval require written JCI authorization.

BASELINE: PRIMER + ONE FINISH COAT

READY-TO-USE FINISH

- Check seal, date, label, color and lot number.
- Stir coating uniformly with a compatible mechanical mixer; minimize air entrainment.
- No cement, activator, field tinting, solvent or thinning without written approval.
- Intermix same-color pails where authorized for uniform appearance.

ROLLER + BRUSH

- 3/4-inch nap roller is the proposed standard for textured walls.
- Use appropriate nylon/polyester brush for cut-ins.
- Work in manageable sections; maintain wet edge and avoid holidays.
- Back-roll only where indicated by approved method.

AIRLESS SPRAY: HIGH-BUILD EQUIPMENT TRIAL

For evaluation only, a 0.025–0.029 in tip is a reasonable trial range for a mineral-loaded, high-build coating based on comparable products; it is not a released CoolCote specification. Trial the pump, pressure, filters/strainers, hose and back-roll approach with Nationwide / JCI. Select the lowest effective pressure that achieves even atomization without streaks, tails or texture defects. Never remove filtration, thin material or change equipment safeguards solely on this guide.

Required before release: manufacturer-approved tip and pressure, minimum pump capacity, filter compatibility, hose size, allowable dilution, cleaning process and roller acceptance standard.

STEP 05

APPLY ONE FINISH COAT

Measure success by complete specified film build and quality - not simply by achieving a one-pass appearance.

FINISH COAT WORK METHOD

- Confirm approved primer has fully reached its recoat interval.
- Stir to a uniform consistency and keep material protected from contamination.
- Apply one continuous finish coat, working from cut-in to wet field and maintaining a wet edge.
- Fill the texture uniformly. Check pinholes, holidays, runs, lap marks and incomplete hiding.
- For rough / porous sections, apply additional material only within approved film limits.

Website copy

Identifying pilot photo and caption omitted.
Technical content unchanged.

COVERAGE + FILM BUILD

100–125	500–625	13–15
SQ FT / GAL FINISH	SQ FT / 5-GAL PAIL	MILS WET*

FILM THICKNESS - TECHNICAL RECONCILIATION

Your supplied QC sheet reports 13–15 mils wet and 5–6 mils dry. The dry-film target cannot be released until the manufacturer confirms the current solids by volume and reconciles these values with the 100–125 sq ft/gal spread rate. For context, one gallon spread over 100–125 sq ft yields about 16.0–12.8 mils theoretical wet film, before losses. Actual field targets and acceptance tolerances require written approval.

*QC sheet value for technical review only - not a final validated jobsite minimum. Do not substitute historical film-build targets for current Formula D.

STEP 06

VERIFY & DOCUMENT

Use a simple installation record to protect the owner, applicator and Just Cool It warranty obligations.

ENVIRONMENTAL HOLD POINT

Record ambient temperature, wall temperature, relative humidity, dew point, recent rain, wall dryness and rain/dew forecast before work. Do not apply outside final approved Formula D limits. Specific temperature, RH, dew-point margin, rain-resistance and cure times remain to be released by manufacturer.



BEFORE Document substrate photos, repairs, existing-paint soundness, moisture / pH checks where applicable, primer selection and batch IDs.

DURING Record installer, date, weather, wall sections, equipment, coverage, field film checks and adjustments.

AFTER Inspect uniformity, complete hide, pinholes, cracking, drips / lap marks, and photograph final condition.

WARRANTY HANDOFF

Provide the current 20-Year Limited Material Warranty, the invoice, approved system instructions and retained job record. Warranty is subject to its actual written conditions; it is not a guaranteed energy-savings, workmanship or lifetime-performance promise. Preserve approval of primer-free exceptions when applicable.

REV 1.0 RELEASE GATE

CONFIRM BEFORE FIELD USE

This document provides a professional review framework. Do not treat unresolved settings as approved manufacturer instructions.

☐ **SYSTEM**	Current Formula D ID; approved primer / block filler SKUs; direct-coat waiver procedure
☐ **SUBSTRATE**	Accepted coatings; minimum stucco/concrete cure; moisture / alkalinity limits
☐ **FIELD PREP**	Cleaning methods; pressure limits; approved repair and test-patch standards
☐ **EQUIPMENT**	Mixing speed/time; 3/4-inch nap confirmation; spray tip, pressure, filters
☐ **APPLICATION**	Exact wet/dry film targets; thickness measurement frequency; coverage
☐ **ENVIRONMENT**	Air / substrate temperatures, RH, dew point margin, rain readiness, cure time
☐ **CLOSEOUT**	Cleaning / storage / shelf life; repairs, reinspection and 20-year warranty protocol

LATEST SUPPLIED QC / PERFORMANCE INPUTS

Viscosity 117–122 KU (batch 118) | 11.4–11.7 lb/gal (batch 11.5) | Gloss 4–7 at 60° (batch 6.1) | 54–57% solids by weight (batch 56%). Solar reflectance 88.5% and thermal emittance 90.4% are supplied values; retain original lab reports.

REFERENCE METHODS - WHERE RELEVANT

ASTM D4261: CMU cleaning | D4263: concrete moisture indication | D4262: pH of chemically cleaned / etched concrete | D3359: tape adhesion (method/thickness limitations apply) | D7234: concrete pull-off | D4541: pull-off on other rigid substrates. Methods are not automatic acceptance criteria.

Industry review sources: Sherwin-Williams Surface Preparation (sherwin-williams.com); Behr High Build No. 4700 application guidance (behr.com); ASTM standards catalog (store.astm.org). Follow the final JCI label/TDS/SDS first.