

OVERVIEW

Hardcast® RC-300 is a spray-applied coating designed with an EPA-registered chemical package that resists microbial growth, locks down offensive particles, and removes odors. This coating was engineered for use on surfaces inside the building envelope, including ductwork, that have been exposed to mold and/or smoke and soot damage. Follow the current applicable standards to evaluate the substrate for restoration or replacement. Once the surface has been cleaned, the user can apply a homogeneous coating to lock down all remaining offensive particulate and create a barrier through which no palpable scent can escape. The RC-300 product may be top-coated after complete cure. Hardcast recommends testing coating compatibility prior to applying any top-coat product. RC-300 is available in white for true visualization of cleanliness, black for complete concealment of the surface, and clear for situations requiring visible proof of mold and/or smoke and soot particles removed.

FLAME SPREAD	0
SMOKE DEVELOPED	5



PART NUMBERS

Part Number	Product Description
329742	(1) 5-Gallon Pail (White)
329544	(1) 5-Gallon Pail (Black)
349545	(1) 5-Gallon Pail (Clear)

SPECIFICATION/STANDARDS COMPLIANCE

Property	Method	Results
Flame Spread/Smoke Developed	ASTM E84	0/5
NFPA	90A & 90B	Class 1
VOC	EPA Method #24	13 g/l
VOC Limitation	SCAQMD Rule 1168	Pass
GREENGUARD Gold	UL 2818	Pass (Classroom & Office)
Fungus Resistance	ASTM G21	No Growth
Water Resistance	CSTM. RA 8.0	Pass
3rd Party Environmental Testing	Method #1 PNAH (Polynuclear Aromatic Hydrocarbons)	Reduced After Coating
3rd Party Environmental Testing	Method #2 Respirable Particulates	Significant Reduction
Adhesion in Peel (galvanized metal)	ASTM C794-10	Peak Peel Strength 7.15 - 11.5 LBF

FEATURES AND BENEFITS

- Mold-resistant coating
- Post-fire and smoke encapsulant
- Removes odors from surfaces
- 3rd party environmental testing
- Can be used on primed metal, galvanized metal, wood, drywall, cement, cinder block, and many more substrates
- Can be used on structural materials during new construction
- Can be used as a primer
- Can be painted using latex or epoxy paint
- Low VOC
- Formulated with EPA-registered chemicals to resist microbial growth on the surface of the coating
- GREENGUARD Gold Certified
- Meets or exceeds the requirements of IICRC S520 Mold Remediation Standard
- Made in the USA



- True zero and low-VOC products are resistant to mold, mildew, and fungi
- Properly installed and sealed systems promote optimal indoor air quality



- Hardcast's line of water-based duct sealants and coatings have been awarded GREENGUARD Certification (UL 2818)
- GREENGUARD Gold certified products meet the strictest chemical emission limits to account for sensitive individuals and ensure products are acceptable for schools and healthcare facilities

TYPICAL PROPERTIES AND CHARACTERISTICS

Color	White, Black (wet: dark gray, dry: black), and Clear (wet: white, dry: clear)
Base	Synthetic latex
Solvent	Water
Weight per Gallon	9.65 lbs. (+/- 0.2 lbs.)
Solids Content	50-60% (+/- 2%)
Viscosity	> 15,000 cps
Coverage (per gallon)	Smooth: 200-600 ft ² /gallon, Porous: 100-200 ft ² /gallon
Shore A Hardness (ASTM D2240)	>24
Flexibility (ASTM D412)	Passes 1/4" mandrel bend
Dry Time*	1-2 hours (to touch) or 24-48 hours (dry through) depending on temperature, humidity, and airflow
Service Temperature	-20°–200°F (-28.8°–93.3°C)
Flammability	Non-flammable
Mildew Resistance	Mold and mildew resistant
Weather Resistance	Excellent
LEED v4	UL 2818 Pass
Seal Class	Meets Seal Class A
Grind Check (Hegman Fineness Grind)	> 4.5
Slump Test (ASTM D2022)	Pass
Pencil Hardness (ASTM D-3363)	5H
Packaging	5-Gallon Pail

*Note: The material will not transfer when touched but will indent with pressure. Above times are based upon average temperature and humidity.

APPLICATION

Temperature	40°–110°F (4.4°–44°C). Keep at 70°F prior to use and for optimum performance. If product temperature falls below 70°F, move it to a warm area until optimum performance is achieved.
Preparation	Prior to application, mix thoroughly to achieve a uniform consistency. Surfaces must be dry and should be mechanically cleaned to remove all mold, dust, soot, and loose particulate. For best adhesion on smooth surfaces (not including galvanized metal), a 2-3 mil (50-75 micron) profile surface preparation is recommended.



Application	Proper product selection, surface preparation, and application affect coating performance. Coating integrity and service life will be reduced if surfaces are improperly prepared. Apply to clean dry surfaces free of oil, grease, and other foreign matter. Apply using an airless sprayer, HVAC robotic sprayer, brush, or roller. Achieve a wet film thickness of 15-20 mils for smooth surfaces and 30-40 mils on porous surfaces. A heavily porous substrate may require a second coat. Consult an Indoor Air Quality Environmentalist and the local building codes prior to starting the restoration project.
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Clean Up Wet Soap and water.

Clean Up Dry Low-VOC UN-TACK™ Cleaner/Adhesive Remover, petroleum solvents or mineral spirits.

Painting/Top-Coat Test top-coat compatibility with RC-300 prior to full application. Allow 24-48 hours cure time. Use only latex or epoxy paints.

PRECAUTIONS

- Inspect all winter shipments on arrival. Do not allow this product to freeze.
- Apply when temperatures will not fall below freezing for 36-48 hours.
- Do not apply this product where temperatures will exceed 200°F (93.3°C).
- Keep out of the reach of children.
- Review Safety Data Sheet for complete safety information prior to use.
- DO NOT use where acidic or alkaline chemicals are present (i.e., lab fume hood, vents, etc.).
- Dispose of product according to local codes and laws. Once any remaining product fully cures in the pail it can be thrown away.
- For Industrial Professional Use Only.

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STORAGE

Temperature	40°–110°F (4.4°–44°C).
Shelf Life	One year (unopened)
Flammability	Non-flammable

LEED®

Post-Industrial Recycled Content	0%
Pre-consumer Recycled Content	0%
VOC Content	13 g/l
Manufacturing Location(s)	Wylie, TX



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