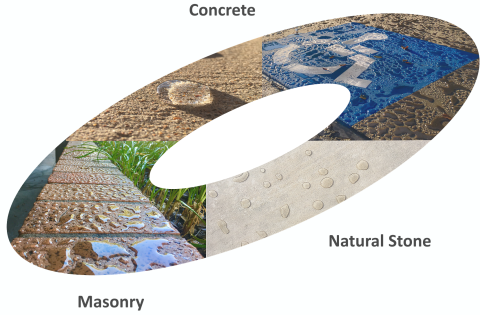


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Looking for a specific product? Integricote has a knowledgeable team of experienced formulation chemists and materials scientists that can work with potential clients to develop customized products that exceed their performance requirements. For more information, visit: www.integricote.com



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Product Information

CaraPro® Sealers & Stains for Masonry & Concrete



www.integricote.com

Product Line Overview

PRODUCT LINE	DESCRIPTION
CaraPro® Concrete Sealers & Stains	Cost-effective, low viscosity, solventborne penetrating polysiloxane-based systems with dry-to-touch times ranging between 10-30 minutes. Fluorine-free water-beading finish. Tolerant of light foot traffic after 30 minutes of application. Fungal and algae resistant finish. Compatible with all types of porous concrete substrates.
CaraPro® Select Concrete Sealers & Stains	Solventborne penetrating polysiloxane-based waterproofing sealer that impart a fluorine-free water-beading finish. Excellent cost/performance balance. Tolerant of light rain 45 minutes after application at ambient temperatures >70 °F. Fungal and algae resistant finish. Quick-dry technology yields short dry-to-touch times (5-30 minutes depending on drying conditions). Compatible with types of porous concrete substrates.
CaraPro® Premium Concrete Sealers & Stains	High flashpoint, low VOC, solventborne, penetrating polysiloxane-based systems that impart a fluorine-free water-beading, fungal, and algae resistant finish. Compatible with all types of porous concrete substrates.
CaraPro® Masonry Sealers & Stains	Gloss-free, solventborne, penetrating polysiloxane-based systems with dry-to-touch times ranging between 10-30 minutes. Excellent cost/performance balance. Fungal and algae resistant finish. Compatible with all types of porous masonry substrates and natural stone.
CaraPro® Select Masonry Sealers & Stains	Gloss-free, solventborne, penetrating polysiloxane-based systems that impart a fluorine-free water-beading finish. Tolerant of light rain 30 minutes post-application. Fungal and algae resistant finish. Mitigates recurrence of efflorescence. Quick-dry technology yields short dry-to-touch times (5-30 minutes depending on drying conditions). Compatible with all types of porous masonry substrates and natural stone.
CaraPro® Premium Masonry Sealers & Stains	Gloss-free, low VOC, high flashpoint, solventborne, penetrating polysiloxane-based systems that impart a fluorine-free water-beading finish. Fungal and algae resistant finish. Mitigates recurrence of efflorescence. Compatible with all types of porous masonry substrates and natural stone.

Color Chart



CaraPro® Product Lines

The CaraPro® line of sealers & stains for masonry and concrete are designed and formulated using patented nanotechnology developed by Integricote, Inc. CaraPro® addresses the growing need for VOC compliant, oil-free, fluorine-free, easy-application, high-performance, penetrating architectural and industrial coatings. All CaraPro® products are low-viscosity solventborne systems with quick-dry technology chemically tailored to specific surface types to optimize interfacial interactions, yielding unrivaled protection and ease-of-application. The CaraPro® line of sealers & stains for masonry and concrete are available in both clear and colored formulations. Our colored formulations utilize size-controlled, state-of-the-art ultraviolet- and infrared-reflective pigments to increase colorfastness and reduce heat buildup to protect your investment(s).

The CaraPro® Difference



Figure 1] Removing salt/mineral buildup and fungal/algae growth then sealing with CaraPro® Single-Coat-Clear Masonry Sealer protects and reveals the true hue of natural red sandstone.



Figure 2] Brick facades are ordinarily susceptible to frequent fungal and algae growth (left) remain unblemished 18 months after treatment with CaraPro® Select Single-Coat-Clear Masonry Sealer.



Figure 3] Sandstone facades severely soiled from extensive fungal and lichen growth remain in pristine condition 6 months after application of CaraPro® Select Single-Coat-Clear Masonry Sealer.



Figure 4] Limestone monument signs typically requiring biannual pressure-washing maintain unblemished surfaces 2 years after application of CaraPro® Single-Coat-Clear Concrete Sealer.

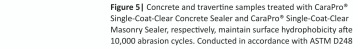


Figure 5] Concrete and travertine samples treated with CaraPro® Single-Coat-Clear Concrete Sealer and CaraPro® Single-Coat-Clear Masonry Sealer, respectively, maintains surface hydrophobicity after 10,000 abrasion cycles. Conducted in accordance with ASTM D2486.

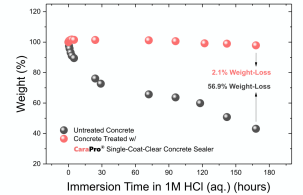


Figure 6] Untreated and treated (CaraPro® Single-Coat-Clear Concrete Sealer) concrete samples lost 2.1% and 56.9% of their initial weight, respectively, after 168 hours of immersion in 1M HCl (aq.) (i.e., untreated samples lost 27 times more mass than their treated counterparts).

Summary of Test Results

PERFORMANCE STUDY	TEST METHOD	RESULTS ¹
Water Absorption	ASTM C642	Water repellent efficiency (WRE) of 98.5% (30 minutes)
Bulk Water Sorption	ASTM C1375	WRE = 87.0% (48-72 hours)
Rate of Absorption	ASTM C1585	WRE = 99.0% (30 minutes); WRE = 99.0% (24 hours); WRE = 95.0% (20 days)
Dry-to-Touch Time	Adapted from ASTM D1640	10-30 minutes depending on ambient relative humidity and temperature
Static Friction	Rubber Shoe Test	No change in coefficient of static friction at the surface post-treatment
Abrasion Resistance	ASTM D2486	Maintains 98% of its initial sessile contact angle after 10,000 abrasion cycles
Acid Resistance	Immersion in 1M HCl (aq.)	Untreated samples lost 27 times more mass than treated samples after 168 hours

¹ All results reported were obtained from samples treated with CaraPro® Single-Coat-Clear Concrete Sealer

Abrasion Resistance

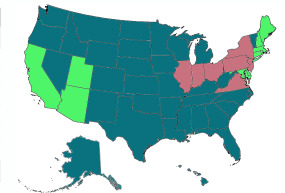
The unique low-viscosity rheology of the CaraPro® line of sealers and stains for concrete and masonry enables optimal penetration into the substrate to provide advanced protection from the inside out as opposed to an easily erodible surficial coating. Refer to Fig. 5.

Acid Resistance

Concrete materials, particularly in industrial settings, are often exposed to aqueous acidic environments under which they are expected to perform. The CaraPro®, CaraPro® Select, and CaraPro® Premium line of concrete sealers and stains were designed to penetrate millimeters into the substrate to encapsulate and functionalize the fine grains of the concrete, forming an interpenetrating protective network. This works to repel aqueous acidic mixtures at the surface and retard diffusion into the bulk substrate. Refer to Fig. 6.

Suggested List Pricing

PRODUCT NAME	SUGGESTED PRICING ¹	VOC COMPLIANT ²
CONCRETE		
CaraPro® Single-Coat-Clear Concrete Sealer	\$42.00/ Gallon	●
CaraPro® Single-Coat-Stain Concrete Sealer	\$46.00/ Gallon	●●
CaraPro® Select Single-Coat-Clear Concrete Sealer	\$44.00/ Gallon	●●●
CaraPro® Select Single-Coat-Stain Concrete Sealer	\$48.00/ Gallon	●●●●
CaraPro® Premium Single-Coat-Clear Concrete Sealer (High Flashpoint, Low VOC)	\$45.00/ Gallon	●●●●●
CaraPro® Premium Single-Coat-Stain Concrete Sealer (High Flashpoint, Low VOC)	\$49.00/ Gallon	●●●●●
MASONRY		
CaraPro® Single-Coat-Clear Masonry Sealer	\$37.00/ Gallon	●
CaraPro® Single-Coat-Stain Masonry Sealer	\$41.00/ Gallon	●●
CaraPro® Select Single-Coat-Clear Masonry Sealer	\$39.00/ Gallon	●●●
CaraPro® Select Single-Coat-Stain Masonry Sealer	\$43.00/ Gallon	●●●●
CaraPro® Premium Single-Coat-Clear Masonry Sealer (High Flashpoint, Low VOC)	\$42.00/ Gallon	●●●●●
CaraPro® Premium Single-Coat-Stain Masonry Sealer (High Flashpoint, Low VOC)	\$46.00/ Gallon	●●●●●



● 400 - 600 g/L (Statewide)
● 250 - 400 g/L (County-specific. Check local regulations)
● 100 - 250 g/L (County-specific. Check local regulations)

¹ All suggested pricing values presented herein are Integricote's manufacturer suggested list prices. Please contact Integricote, Inc., to obtain up-to-date region-specific price lists or information regarding "Distributor Pricing". Note that minimum order quantities are required to qualify for "Distributor Pricing". All pricing values presented above are subject to change by Integricote, Inc.
² The colored dots correspond to the adjacent color-coded map of the United States and denote in which states the 6 products listed in the table above may be used with respect to federal and local VOC regulations.

NOTE: All VOC values presented herein were obtained from publicly available documents published by the Environmental Protection Agency, Ozone Transport Committee, The Northern Virginia Emissions Control Area, The Frederickburg Emissions Control Area, The Richmond Emissions Control Area, Lake Michigan Air Directors Consortium, California Air Resources Board, and South Coast Air Quality Management District. VOC regulations may vary between counties within a state and are subject to change by these agencies. Integricote assumes no liability for providing this information regarding VOC regulations/compliance.