

TECHNICAL DATA BULLETIN**OKON PLUS COLOR™ (OPC™)**

CONCRETE STAIN BASE for VERTICAL CONCRETE and MASONRY

- ⊙ MIX WITH ANY EXTERIOR LATEX PAINT TO CREATE A SEMI-SOLID STAIN
- ⊙ HIDES COLOR VARIATION WITHOUT HIDING THE TEXTURE
- ⊙ MAKES THE COLOR OF BLOCK AND MORTAR UNIFORM
- ⊙ FOR USE ON CEMENTATIOUS BLOCK, BRICK AND STUCCO

OKON – PLUS COLOR (OPC) is a water-repellent stain-base that is mixed with latex paint to produce a semi-solid, water-repellent stain for exterior, vertical cementatious surfaces. OPC can be mixed with any exterior latex paint and contains no pigments to change its color. A test application is required to determine the final appearance and coverage rate because the appearance will be influenced by the porosity, texture and color of the substrate as well as the opacity of the paint color.

USE AREA

- Porous, unpainted, vertical surfaces
- Cementatious Block, Brick and Stucco

FEATURES

- Compatible with all exterior latex paint
- Unlimited choice of colors
- Beautifies and protects without completely filling or hiding the surface texture.
- Creates a semi-solid or opaque stain
- 5-Year Water Protection Warranty available *
- Breathable, low VOC, water-clean up
- Gives gray block the appearance of integral color

TECHNICAL DATA

- | | |
|--------------------|-------------------------|
| • Chemistry | Acrylic micro-emulsion |
| • Volume Solids | 15% min. by weight |
| • Product type | Water-base |
| • VOC | 100 g/L |
| • Specific gravity | 1.02 |
| • pH | 8.5 – 9.5 |
| • Flash point | N/A |
| • Viscosity | <100 cps |
| • UV resistance | Excellent - 1000 hrs ** |

* Contact Rust-Oleum Corporation for Warranty procedure.

** Final UV resistance will be influenced by the durability of the paint mixed with OPC.

PERFORMANCE STANDARDS

PROPERTY	TEST METHOD	RESULTS
Water absorption	ASTM C67	6% max
	ASTM C642	24 hr/75° F
	ASTM C97	
	ASTM C140	
Water vapor Transmission Rate	ASTM E96-95	11.51 perms
Durability	ASTM G53 and RILEM 11.4	<7% loss of water repellency
	ASTM E514	100% Reduction on CMU
Water Penetration And Leakage	ASTM E514	100% Reduction on CMU
Moisture Vapor Permeability Rate	ASTM D1653	4.2 grains/hr/ft ²
Water Resistance By Immersion	ASTM D870	Pass
Water Resistance Under Fog	ASTM D1735	Pass
Water Resistance 100% Relative Humidity	ASTM D2247	Pass
Water Resistance To Condensation	ASTM D4585	Pass

SPECIFYING OKON-PLUS COLOR

OPC is an acrylic-silane/siloxane water repellent stain system designed to decorate porous, unsealed cementatious surfaces. If additional water repellency is desired, OPC can be top coated with OKON W-2 Clear Water Repellent.

OPC must be intermixed with exterior latex paints. Select a light to medium exterior color. Colors made from neutral or clear bases may be used but require special application techniques. OPC does not contain pigments that will change the paint color but the final appearance will be influenced by the porosity and the color of the substrate. A test application is required to determine the final appearance.

Intermixing OPC and paint

Mix two parts OPC to one part paint to produce a semi-solid stain. The paint to be intermixed with OPC should be from the same batch and mixed thoroughly before being combined with OPC. Intermixing generally occurs on the job in a drum. Inter mix enough OPC and paint at one time to completely cover a surface area between architectural breaks. Add the paint to the OPC and mix thoroughly with a power mixer. Remix every four hours to prevent settling and color variation.

APPLICATION and COVERAGE

OKON PLUS COLOR is best applied by airless spray but may be rolled on surfaces with flush mortar joints. In general, OPC should be applied like paint to create a uniform, even appearance to match pre-approved mock-up. Like with any stain, precautions must be taken to avoid lapping which may not be easily visible on small mock-ups. Always begin staining on the backside of the property or in the least conspicuous area to establish proper application technique. After applying a section, stop and inspect the appearance.

Apply only when surface temperature is > 50° F and < 100° F. In hot dry conditions, misting the surface with potable water immediately before application will help cool the surface and reduce the likelihood of lapping. Protect from rain for 24 hours.

When spraying, use a .013" - .015" tip and set the pump at 1000 to 1500 psi. Start at the top of a wall and work down while holding the gun 12" to 15" from the surface. Apply using an overlapping cross-hatch spray pattern. This is necessary to ensure that the stain uniformly penetrates mortar joints. Backrolling is recommended to remove drips or runs. Backrolling is required when staining over recessed mortar joints to pick-up drips from joints or when staining tilt-up and stucco to even-out the finish.

When rolling, a power-roller with a ¾" – 1" nap cover is recommended to increase speed and help maintain a wet-edge. Fluted surfaces or surfaces with recessed mortar joints cannot be rolled.

Additional coats may be applied to deepen the color and increase opaqueness of the finish. The application rate of OPC is dependent on the porosity and texture of the surface. OPC will generally cover 150- 200 s.f./gal¹.

If greater protection against water penetration is desired, OKON W-2 can be applied in one or two coats at the following rates.

Substrate	S.F / GAL
Lt. Wtg. CMU ²	Use Plugger
Md. Wtg CMU	75 - 150
Normal CMU	100- 175
Exp. Aggregate Precast	150-200
CEMENTATIOUS Stucco	150-250

POROSITY TEST

The porosity of concrete block can be measured using a RILEM tube per Test Method 11.4. The tube is attached to the substrate with putty and filled with water. The time it takes the water to drain from the tube indicates the porosity of the substrate and indicates whether additional applications of W-2 are needed.

¹ An additional application of W-2 may be necessary on very porous block to provide adequate protection against water penetration into interior surfaces.
² Mixing with clear or neutral base colors will produce semi-transparent stains that must be applied using HVLP equipment to avoid lap marks.
³ One or two coats of OKON PLUGGER may be necessary to stop water penetration through lightweight block.

RILEM Tube Tests Guideline for Concrete Block:

Condition	Time to drain (seconds)	Rating
Uncoated	0-30	Very porous
	30-90	Porous
	> 90	Dense
Coated	< 90	Unprotected
	> 90 - < 180	Good protection
	>180	Excellent protection

LIMITATIONS

- For vertical, above-grade substrates only
- Substrate temperatures must be > 50° F (10° C) and < 100° F (38° C) during application
- Not recommended for application over sealed, non-porous surfaces
- OPC is not designed to remedy or prevent water intrusion problems associated with poor workmanship or inadequate building design.
- Water-repellency alone may not prevent water damage caused by water intrusion through some light-weight or highly absorbent substrates.
- Substrate color will affect the final color. Do not attempt to produce a semi-transparent stain lighter than the original substrate.
- Color and transparency decisions are subjective and should be made by property owner or A/E. A mock-up should always be performed and approved by property owner.
- To achieve good protection against water problems, exposed walls must be capped, the backside of parapet walls waterproofed, flashing must be in place, and where codes allow, weep holes and drains installed and functioning.

Product No.	Package	Wtg.	UPC
OK760	Five	44 lbs	7 49505 95005 1



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