

Concrete Guard Pro

Advanced Nano-Polymeric Protective Coating for Concrete & Masonry

FlameOFF® Concrete Guard Pro is non-permeable and protects concrete & masonry surfaces from water, chloride ion penetration, food & beverage acids, bird & animal waste, salt spray, and chemicals. It is peel and flake resistant with a clear gloss finish and can be applied as a top coat. Perfect solution for corrosion prevention, moisture intrusion, efflorescence, mild acids, bird & animal waste, and hydrocarbon protection.

APPLICATIONS / SURFACES

PRIMARY APPLICATIONS

Exterior concrete walls & structures, floors, masonry pavers, bricks, and cement blocks

COMMON USES

Parking structures, industrial facilities, commercial buildings, residential concrete

CHARACTERISTICS

Appearance	Light Yellow	Flash Point	16.7°C (62.1°F)	Coverage	200-600 sq.ft./gal
Finish	Clear (Gloss)	VOC	<100 g/L	Expected Wear	5+ years
Odor	Mild Fruity	Weight	8.34 lb/gal, 1 kg/L	Base Type	Solvent

Coverage varies depending on porosity and texture of substrate. Reapply as needed based on wear and exposure.

SURFACE PREPARATION

Test Area: Due to the diverse nature of concrete and masonry surfaces, always test in a discreet location to ensure proper adhesion and desired appearance.

IMPORTANT: ELIMINATE ANY SILICONE. It is imperative that any silicones or polymer modified grouts be removed before applying this product. To check if the surface has been previously sealed or coated, simply sprinkle water onto the surface. If the water is absorbed and the surface darkens, it has not been sealed. However, if the water beads up, it indicates the presence of a coating or sealer that must be removed to ensure proper adhesion of the coating.

To ensure a successful application, the surface must be clean, dry, and structurally sound. Remove all traces of **oil, grease, dust, dirt, and foreign materials** that could hinder bonding. Repair any cracks, crumbling, or defects before coating.

NEW CONCRETE OR MASONRY

- Remove contaminants, **laitance**, existing coatings, and curing agents
- Create uniform profile equivalent to **600-grit** via sandblasting or floor grinding
- Verify surface **pH is 7-9**; clean thoroughly and allow to dry completely
- Confirm surface moisture is $\leq 13\%$ prior to application

PREVIOUSLY PAINTED SURFACES

- Eliminate foreign material and **sand to a 600-grit profile**
- If existing paint is chipped or weather-damaged, repaint as required
- Follow paint manufacturer's cure time **before** applying Concrete Guard Pro
- Ensure surface is clean, dry, and free of loose material

APPLICATION METHODS

Environmental Requirements: Temperature 45°F - 105°F (7-41°C) | Avoid rain for 48 hours after application | Adequate ventilation | Remove ignition sources

SPRAY METHOD

- Shake container thoroughly to re-suspend particles
- Re-shake every 15-20 minutes during application
- Use commercial grade HVLP sprayer (1.0-1.3 size tip) or airless sprayer (.111, .211, .311 tip)
- Hold tip 8-10" from surface; apply in cross pattern (left-right, up-down)
- Avoid puddling to prevent bubbles or delamination
- If concrete porosity is high and quickly absorbing product, wait 20 minutes then apply a second coat

ROLLER METHOD

- Shake container thoroughly; re-shake every 15-20 minutes
- Use high-density ultra-smooth roller
- Apply in cross-pattern, keeping roller completely saturated
- Avoid second coat unless flaw in first application

Spread Rate: Recommended spread rate per coat: Wet film thickness: 2.5-3.5 mils on horizontal surfaces. Vertical surfaces may need wet on tack to avoid runs. Dry film thickness: 1.5-2.1 mils.

PROCESSING PROPERTIES

Touch Dry	2-3 hours	Walk On Time	Min 8-12 hrs	Full Cure	7 Days
Dry Through	3-5 hours	Moisture Exposure	48 hours	Recoat Interval	10-20 min

Under standard lab conditions. Light foot traffic only during walk-on period.

TECHNICAL DATA (ALL VALUES @ 77°F / 25°C)

TEST / PROPERTY	US	METRIC
Volatile Organic Compounds (ASTM D2369)	<0.83 lb/gal	<100 g/L
Theoretical Coverage	640-800 ft ² /gal @ 0.7-0.75 mils DFT	16-20 m ² /liter @ 18-44 microns
Specific Gravity	7.36 lbs/gal	0.88 kg/L
Flash Point - Pensky Martin Closed Cup	62.1°F	16.7°C
Application Temperature	45-105°F	7-41°C
Abrasion Resistance CS-17 1000 Cycles (ASTM 4060)	23 mg Loss	
Surface Flammability (ASTM E162)	Heat Index 0 (Best Result)	
Adhesion to Concrete (ASTM D4541)	1200+ PSI Cohesive Concrete Failure	
Accelerated UV Exposure 1000 hrs (ASTM G154)	dE: <0.5	
Thermal Cycling (ASTM 6944) - 50°C/4hrs, 25°C/4hrs, -29°C/16hrs	No Effect	
Solvent Resistance - MEK (ASTM D4752)	1000 Rubs - No Effect	
Shore D Hardness (ASTM D2240)	72 ± 3	
Operating Temperature	-200°F to 350°F	-128°C to 176°C

CLEAN UP

- Clean tools and equipment with **acetone**
- Flush thoroughly immediately after application
- Clean before product dries

If coating dries on tools, they will not come clean with acetone or any other solvent.

STORAGE & SHELF LIFE

- Store in cool, dry environment away from direct sunlight and heat
- Keep container tightly closed when not in use
- **Shelf Life:** 12 months unopened at 77°F / 25°C
- **Do not freeze.** Protect from extreme temperatures

SAFETY CAUTIONS

- Use OSHA approved 1910.134 and ANSI Z88.2 respiratory protection
- Fresh air and exhaust required in work area to prevent inhaling
- If inhaled, move to fresh air immediately; call physician if difficulties occur
- Wear butyl-rubber gloves and skin protection to avoid contact
- If coating contacts skin, wash thoroughly with soap and water
- Use chemical safety goggles or splash shields to avoid splashes
- Never wear contact lenses without eye protection
- If eye contact: immediately flush with water for 15 minutes, seek medical attention
- If swallowed: rinse mouth thoroughly, obtain immediate medical attention
- Always ensure excessive ventilation when working in enclosed areas

CARE & MAINTENANCE

- Use damp rag for routine cleaning
- Avoid abrasive cleansers or scouring pads
- If area is damaged: sand lightly with 600 grit and reapply
- If substrate damaged: make repairs first before reapplying

REGULATORY INFORMATION

DOT Classification: Class 3 Flammable Liquid

UN1263, Paint, 3, PG II

HMIS Ratings:

Health: 1 | Flammability: 3 | Reactivity: 0

LIMITED WARRANTY

FlameOFF® Coatings warrants that this product will be free from defects. Any material found to be defective will be replaced in like quantity by the manufacturer within **5 years** from the date of purchase.

Proof of purchase and evidence of proper application required. This warranty is not transferable and does not cover wear and tear on the substrate, only the product itself.

FlameOFF® Coatings

info@flameoffcoatings.com | www.flameoffcoatings.com

Sold in 5-gallon containers. Contact technical sales for large volume inquiries.

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