WareShield®

— CONCRETE DENSIFIER —

DENSIFY. PROTECT. RESILIENT.

Protective Finishes, LLC™

PRÆTORIAN

WareShield is a RTU densifier. It is an outstanding choice for all around use. WareShield is a 'work horse' with both functionality and affordability.

First, WareShield will dive deep into the 'creme layer', producing a calcium silicate hydrate reaction in the concrete pores. This reaction contributes to added chemical resistance and increased hardness of the concrete all in one application.

Second, WareShield will provide a noticeable degree of topical sheen upon polishing. Sheen will 'pop' quickly, providing great satisfaction while also reducing labor costs.

Thirdly, WareShield has added resistance protection in its package, making it to be a very big step above any other 'standard' densifier. WareShield, on its own, surpasses the resistance of top selling sealer/guard products (see resistance chart).

WareShield is multifunctional, positioned to be the perfect balance between a silica densifier and a top performing lithium concrete densifier. This comes with the added benefit of targeted stain protection, providing versatility in many environments.

Use alone or in combination with other Praetorian Densifiers and/or Guards. Use on new or aged concrete. Apply WareShield to previously densified concrete to add protection to dull and worn appearances. Use before PreFect Guard or Praesidio Guard for additional substrate acid resistance and increased chemical resistance.

WareShield will not contribute to or trigger Alkali Silicate Reaction (ASR). WareShield is not recommended in areas where strong acid solutions contact.

Primary Applications

- Schools and Institutions
- Warehouses
- Grocery stores
- Retail stores
- Concrete terrazzo
- Decorative concrete

Key Performance Advantages & Benefits

- Ready-to-Use (RTU)
- Resists 'stacking'
- Excellent 'dusting' control
- Stain resistance
- Water resistance
- Very 'breathable'
- Moderate acidity resistance
- Layered and fast reactivity
- Excellent scratch & mar resistance
- Increases surface life
- Enhances concrete appearance
- Efflorescence control
- Good for use on stained concrete and/or concrete terrazzo

Technical Information

Color	Translucent milky white
Odor	Nearly odorless
WT/Gal	8.9 ± 0.1
pH Range	10.7 ± 0.1
VOC Content	Zero
Coverage	800-1000 SF - Fresh, uncured, troweled 400-800 SF - Existing hard troweled 250-400 SF - Existing broomed
Coats/passes	One (1) pass to rejection, 2nd pass optional
Dry Time	15-30 minutes
Recoat Time	Wet-on-wet or after dry
Polish Window	When completely dry
Foot Traffic	When dry
In-service	15-60 minutes
Full Cure	3-5 days
Hardness - full cure	up to 8 Mohs

Performance & Resistance Properties

Full Cure | ASTM D1308 | Spot Test | PASS - minutes noted

Hand Sanitizer (foam & gel)	60 minutes, no effect
White wine vinegar	60 minutes,
Mustard	15 minutes
Mayonnaise	60 minutes
Ketchup	60 minutes
Coca Cola®	30 minutes
Betadine	60 minutes
Alkaline Based Cleaner*	60 minutes
Bleach*	60 minutes
Water	60 minutes
Acid Based Products	Limited resistance

** Undiluted*

Preparation

Use an autoscrubber, with CLN-100 Multi-Purpose Cleaner for all phases of the cleaning process. For grease and deep grime build-up, use PreCept EcoLift per label directions first, then follow up with CLN-100 Multi-Purpose Cleaner.

Remove all coatings, sealers, curing compounds, bond breakers, dirt, grease, oil or other contaminants from the concrete. Use PreCept EcoLift Cleaner for oil related cleaning, followed by a CLN-100 rinse. Rinse as often as needed to ensure the concrete is open and ready for processing. If the concrete is acid stained, thoroughly rinse and neutralize. If mold, mildew or fungus is present, clean the concrete with a solution of 1-part bleach to 3-parts water.

In the 'cutting' phase, grind the concrete anywhere from 80 to 200 grit profile to maximize penetration of WareShield Densifier. Use Praetorian's PowerCut RTU or PowerCut 31 Concentrate during the cutting/grinding stage to reduce process time, achieve a smoother surface faster, and reduce labor costs.

Following the 'cutting/grinding' phase, prepare floor to desired smoothness. The level of gloss achieved is dependent upon the porosity of the substrate and the amount of pre-application grinding/polishing. Remove dust from the floor before applying WareShield.

If the concrete is extremely 'soft' and/or porous, first apply T-1L Densifier before WareShield.

If superior protection is needed, apply Praetorian Praesidio Guard or PreFect Guard over WareShield. Contact Praetorian Protective Finishes, LLC for recommendations.

Safety Information

Hazardous Ingredients: Silicic acid, lithium salt: 12627-14-4| Product Classification: Mixture | Hazard Category 3 | Signal Word: WARNING | Symbol: None | Hazard Statement(s): Causes eye irritation. Causes mild skin irritation. | Precautionary Statement(s): Keep out of reach of children. Wear protective gloves/eye protection. Wash hands thoroughly after handling. IF SWALLOWED, Rinse mouth. Do NOT induce vomiting. If skin irritation occurs, rinse skin with water/shower. If experiencing respiratory symptoms, remove person to fresh air and keep comfortable for breathing. IF IN EYES, Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. For Institutional use only. Not for retail sale or application. Keep out of reach of children. Keep from freezing. Store at room temperature. Shelf-life eighteen (18) months in original container, unopened. For Emergency call Infotrac 800-535-5053 | DOT Not Regulated | VOC's—less than 50 g/l. Consult SDS before use.

Packaging

Item Code	Packaging	Gallons	Liters
CF-2013/5Gal	Pail	5	18.9
CF-2013/55Drum	Drum	55	208.2
CF-2013/275Tote	Tote	275	1041

Application

WareShield is a Ready-to-Use (RTU) product, no reduction is needed. Gently mix or agitate before use, as some settling may occur. NOTE: DO NOT ALLOW product to 'puddle', apply to rejection only. It is best to apply two thin coats rather than one heavy coat.

1. With a manual (pump-up) or commercial low-pressure sprayer, apply WareShield uniformly on the surface. Apply enough to sufficiently wet the surface. Avoid allowing the product to pool/puddle on the surface. Do not 'flood' the surface.
2. Immediately after spray application, with light pressure, spread with the mop to distribute the product evenly on the concrete.
3. Re-wet by lightly spraying areas where absorption has occurred, do this for a period of 5 to 10 minutes.
4. Extract any material that does not absorb into the concrete.
5. Allow surface to set undisturbed for 10-15 minutes.
6. After the floor is dry, remove any dried powder residue from the surface with a stiff broom and/or power sweeper/vac.
7. For maximum shine, use a high speed burnisher 2000+ RPM or higher, equipped with a 1500 grit diamond pad, 'stair-step' grit up to 8000 for more shine. NOTE: If diamond pads are not readily available, use a 'hog's hair' pad, results will be less shine, but protection will not be affected. Also, use of a burnisher less than 2000 RPM may result in less depth of shine.
8. For best results, wait a minimum of four (4) hours before placing the floor 'back-to-service'. Stain and chemical resistance will continue to increase as WareShield fully cures.

Maintenance

Daily clean with CLN-100 Multipurpose Cleaner, diluted to 4oz to one gallon of water. WareShield can be spot applied and polished for repair of damaged areas. DO NOT use acidic cleaners. Refresh surface occasionally with 3000+ diamond pad.

Warranty

The information on this document is based on the research by Praetorian Protective Finishes, LLC (PPF) and other industry experts and is believed to be accurate. No warranty of products can be made or implied by PPF due to variations in surfaces, project/building conditions, environmental conditions, and/or methods of applications used. PPF is unable to anticipate every possible variation encountered in the application of our products, nor anticipate every situation. PPF recommends purchasers and/or application personnel test products to determine the suitability of PPF products for its intended purpose. Praetorian Protective Finishes, LLC warrants this product to be free from manufacturing defects.