



SETTING THE STANDARD

High-Performance Industrial and Decorative Coatings



SYSTEM

WEAR-GUARD

SOLID COLORED TROWELED EPOXY MORTAR
FLOOR SYSTEM

system
310

WEAR-GUARD 310 is a general service 100% solids epoxy mortar system, designed for new construction or renovation work where an impact and abrasion-resistant finish is desired. 310 includes a 100% solids pigmented epoxy topcoat.

COMMON APPLICATIONS

310 is designed to protect concrete floors in the toughest environments. Specific applications include, but are not limited to: heavy duty manufacturing, loading docks, industrial kitchens, food and beverage manufacturing and packaging, chemical plants, fork lift aisles and agricultural floor restorations.

COMPONENTS

F-01 / F-11 TD / P-30 w/ 339 Color Packs / F-41 w/1339 Color Packs

LEED MATRIX [NC 2009]

| | YES | NO |
|------------------------------------|-----|----|
| MRc1.1 Building Reuse | ✓ | |
| MRc2 Construction Waste Management | ✓ | |
| MRc4.1 Recycled Content | | ✓ |
| MRc6 Rapidly Renewable Materials | | ✓ |
| IEQc4.2 Low Emitting Materials | ✓ | |

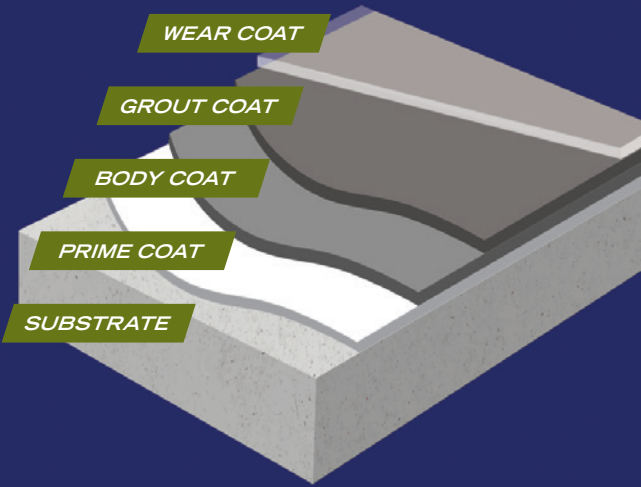
PHYSICAL PROPERTIES

| Description | Standard | Results |
|---|------------|------------------------|
| Tensile Strength | ASTM C307 | 3,370 p.s.i. |
| Compressive Strength | ASTM C579 | 15,200 p.s.i. |
| Modulus of Elasticity | ASTM C580 | N/A |
| Flexural Strength | ASTM C580 | 5,000 p.s.i. |
| Impact Resistance | ASTM D2794 | >160 inch pounds |
| Abrasion Resistance CS17 1000 g | ASTM D4060 | 0.022g Loss* |
| Flammability When Adhered to Concrete | ASTM D635 | Self-Extinguishing |
| Adhesion to Concrete | ASTM D7234 | >450 Substrate failure |
| Wet SCOF (Static Coefficient of Friction) | ASTM E303 | Match Specifications |
| Accelerated Weathering Testing | ASTM G154 | Moderate Yellowing |

Physical properties can be improved by selecting different components. Should you require higher performance than our base system components, please speak to a Polymer Nation Coating Engineer.

* when higher abrasion resistance is required the addition of PN 1336 to the coating should be included.





OPTIONS

Cove Bases: Available

Colors: see back panel

| | A | B | C |
|---------|---|---|---|
| Texture | ✓ | ✓ | ✓ |

Polymer Nation offers 3 categories of finish Textures. Texture A is our smoothest finish. Texture B is our mid-level slip resistant finish and Texture C is our highest level slip resistant finish. Custom textures can be engineered to meet specific design requirements. A mock up is recommended as the best way to ensure customer satisfaction.

Waterproofing Membrane: Available

Optional Finish Coats:

- L-21 Novolac epoxy (with Color Pack), excellent broad-range chemical resistance
- U-20 G, LL No VOC, pigmented, waterborne Urespartic™, high gloss or low luster, UV, graffiti and abrasion resistant coating.
- F-61, F-71 or F-81 Polyaspartic
Excellent UV, Chemical & Abrasion Resistance
- U-51 with #1335 or similar

Antimicrobial: Available

PN 1498 MICRO-GUARD

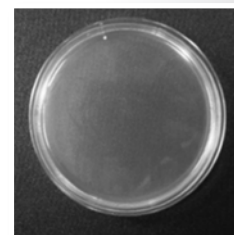
Proprietary Anti-Microbial Pathogen Additive

What is PN MICRO-GUARD?

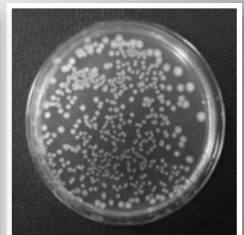
- PN MICROGUARD is ionic silver, bound in an inorganic matrix which hinders microbial growth and kills the bacteria
- 99.9997 % reduction of bacteria, fungi and actinomycetes

Advantages of PN MICRO-GUARD!

- Safety: Low Toxicity, long history of use
- EPA & FDA Registered for products in USA
- Longevity, accelerated testing shows 3-7 years
- Compounded throughout the material
- Adequate reservoir of silver at the surface level that does not require abrading to activate
- Not affected by surface wear



With MICRO-GUARD



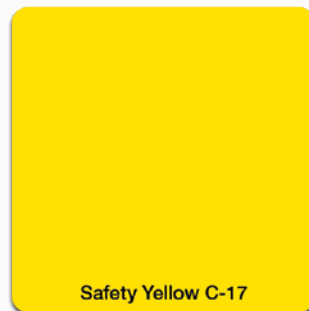
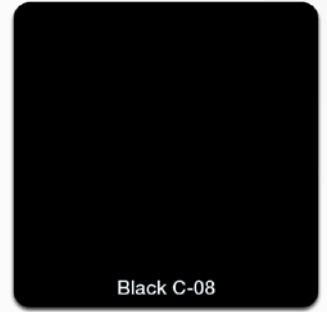
Without MICRO-GUARD

For additional or custom system configurations, please contact your Polymer Nation Consultant.

● COLORS

Custom colors upon request, actual colors may vary.

STANDARD COLORS



POLYMER NATION
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310-02-26

In the unlikely event of a problem, a resolution is one phone call away with the assurance that the blame game will not be a part of the process. Our goal is to develop long lasting relationships with our customers.

WE PLEDGE TO DO WHATEVER WE CAN TO BRING OUR CUSTOMERS THE HIGHEST LEVEL OF SATISFACTION!