



**High-Performance Industrial and Decorative Coatings**



SYSTEM  
**POLY-GUARD**  
HIGH BUILD EPOXY WALL SYSTEM

system  
**110**

# POLY-GUARD

**HIGH BUILD EPOXY WALL SYSTEM**

**POLY-GUARD 110** is a high build, 100% solids, 3-coat Wall and Ceiling system formulated to produce a durable, mar-resistant surface for concrete, block, gypsum wall board, and many other standard building materials.

## ● COMMON APPLICATIONS

Wall and ceiling areas where an industrial coat is needed. Specific applications include, but are not limited to: medical facilities; correctional and educational institutions; retail establishments; heavily traveled corridors; bathrooms and locker rooms.

## ● BASE COMPONENTS

F-01 or P-30 / W-80

## ● 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	✓	

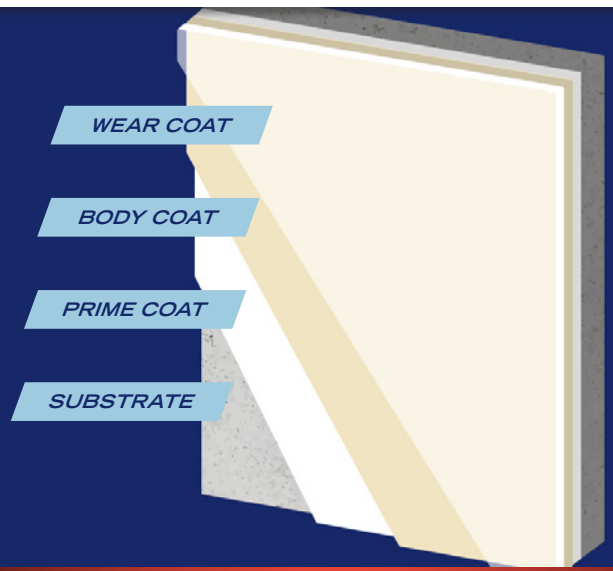
## ● PHYSICAL PROPERTIES

Description	Standard	Results
Tensile Strength	ASTM C307	3,270 p.s.i.
Compressive Strength	ASTM C579	12,200 p.s.i.
Modulus of Elasticity	ASTM C580	N/A
Flexural Strength	ASTM C580	5,500 p.s.i.
Impact Resistance	ASTM D2794	>160 in. lb.
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 fail
Wet SCOF (Static Coefficient of Friction)	ASTM E303	N/A
Accelerated Weathering Testing	ASTM G154	UV Stable

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: Not 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.

### Optional Finish Coats:

F-60	Polyaspartic coating, good chemical resistance and color retention, LEED compliant.
U-20 G, LL	No VOC, pigmented, waterborne Urespartic™, high gloss or Low Luster, UV, graffiti and abrasion resistant, LEED compliant.

Antimicrobial: Available

**PN 1498 MICRO-GUARD**

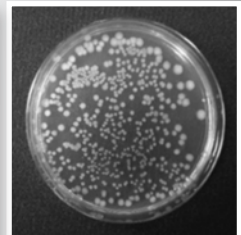
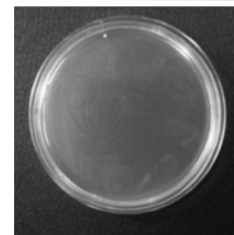
Proprietary Anti-Microbial Pathogen Additive

#### 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.



Custom colors upon request

**POLYMER NATION**

(847) 774-5038 | [polymernation.com](http://polymernation.com)

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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!**