



Ply-Guard EP (Novolac)

Ply-Guard EP (Novolac) is a two-component, 100% solids, multi-functional, high-performance product designed as a highly crosslinked floor coating and mortar binder. Ply-Guard EP (Novolac) offers a workable pot life and positive cure down to 40°F.

Ply-Guard EP (Novolac) is excellent for use as clear or pigmented coating and in broadcast, slurry, and mortar systems. It can be used in chemical-resistant applications, and is especially suitable in flooring environments that are subject to high concentrations of acids. Ply-Guard EP (Novolac) must be applied to a clean, sound, and dry surface and can achieve a uniform coating thickness of 14-16 mils WFT per coat.

Uses

- Chemical Processing and Storage Areas
- Secondary Containment
- Waste Treatment Facilities
- Metal Plating
- Circuit Board Manufacturing

Mix Ratio, Parts by Volume: 3:2

Product Data (All readings taken at 77° F / 25° C unless noted)

Solids Content, %: 100

Volatile Organic Compounds (VOC), gr./lt.: 0

Mixed Viscosity, Clear, cps: 1,000

Recommended Coverage Rate (ft²/gal.): 100-115

Pot Life, min (approximately): 20-30

*Pot life is reduced by increases in mass and/or temperature

Cure Time @ 77°F (25°C)*

Recoat Window, Hours 6

Walk on Time, Hours 16

Drive on Time, Hours 72

*Cure times are influenced by both ambient air temperature and the concrete substrate temperature.

Technical Bulletin

Key Features

- Cures Blush-Free
- Resistant to a broad range of chemicals, including 98% sulfuric acid (non-immersion, splash, spill, and secondary containment)
- Should Be Applied with Aggregate Fillers in Flooring Applications where Impact, Chemical, and Mechanical Abuse are Anticipated
- Standard Colors, Plus Black, White, and Clear

Typical Physical Properties at 70°F (21°C)

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| Tensile Strength | ASTM D638 | 8,200 psi |
| Tensile Elongation | ASTM D638 | 5% |
| Compressive Yield Strength | ASTM D695 | 12,500 psi |
| Hardness, Shore D | ASTM D2240 | 80—85 |
| Adhesion to Concrete | ASTM D7234 | 400 psi (Concrete Failure) |
| Water Absorption | ASTM C413 | <0.1% |
| Flammability when Bonded to Concrete | ASTM D635 | Self-Extinguishing |
| Moisture Vapor Transmission (Maximum)* | ASTM F1869 | 3 lbs./24 Hr./1,000 Sq |
| Concrete Relative Humidity Moisture % (Maximum)* | ASTM F2170 | 75% RH |
| Microbial (Fungi) Resistance | ASTM G21 | Passes #1 |
| Coefficient of Friction, Static Wet, with Aggregate | ANSI B101.1 | >0.45 (Inclines) |
| Coefficient of Friction, Dynamic Wet, with Aggregate | ANSI B101.3 | >0.45 (Inclines) |

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