



Ply-Guard EP (Novolac)

Application Guidelines

Surface Preparation

Concrete must be cured 30 days and be clean, dry, and structurally sound. If using damp surface hardener, surface may be damp but with no visible water. Surface must be shot blasted, diamond ground or acid etched to achieve an International Concrete Repair Institute Guideline No. 310.2R Selecting and Specifying Concrete Surface Preparation for Sealers Coatings and Polymer Overlays, ICRI profile of CSP 3 or greater. A properly prepared surface will have the texture of 80-100 grit sandpaper. If the surface is diamond ground, use 16-24 grit diamonds and vacuum the floor twice to remove concrete dust. Excessive dust in the pores of the concrete can compromise adhesion. **If acid etched, machine scrubbing is required.** Previously coated surfaces must be mechanically cleaned and abraded with 80-100 mesh sandpaper and acetone tact wiped prior to application.

Mixing Instructions

The pot life is 25 minutes for one quart at 77° F (25° C). Working times is shortened by higher temperatures. Pouring material on the floor immediately after mixing will extend work time. Combining ratio is 2 parts A to 1 part B by volume. If using pigmented material, premix Part A until settled pigments are brought up from the bottom of container and are uniformly dispersed before adding Part B. **Proportion the amounts carefully and mix for 2 full minutes using a low speed drill, scraping the bottom and sides of the mixing vessel using a Jiffy Type Impeller Mixing Paddle.**

Application Recommendations

Ply-Guard EP (Novolac) may be applied by roller, trowel or squeegee. For use in aggregate filled flooring, see the Polyset Manual.

Handling Precautions

Do not breathe vapors. Use appropriate respirator with green band cartridge to protect against methyl amine vapors. Avoid contact with skin; wear protective gloves. Read Safety Data Sheet before using.

Slip and Fall Precautions

Polyset recommends coatings or surfacing systems meet ANSI (American National Standard Institute) and NFSI (National Floor Safety Institute) B101.3 Test Method for Measuring Wet DCOF (dynamic coefficient of friction) of Common Hard-Surface Floor Materials, a. incline surfaces >0.45; b. level surfaces >0.42. Polyset recommends the use of angular slip-resistant aggregate in all coatings or surfacing systems that may be exposed to wet, oily or greasy conditions. It is the contractor's and end user's responsibility to provide a coating or surfacing system that meets current safety standards. Polyset or its sales agents will not be responsible for injury incurred in a slip and fall accident.

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Chemical Resistance

The chemical resistance of Ply-Guard EP (Novolac) material is influenced by many factors, including exposure to a mixture of chemicals, service temperature, and housekeeping practices. Successful engineering of the Ply-Guard EP (Novolac) must also take into consideration such factors as substrate design, temperature cycling, and anticipated thermal and mechanical shock. Whenever possible, a sample should be tested under actual or simulated field conditions before a decision is made on the suitability of a given system. Users are urged to consult Polyset for recommendations on the specific project.

The chart on the following page is a guide to the resistance properties of Ply-Guard EP (Novolac):

Key:

1. Suitable for continuous contact for 7 days
2. Suitable for intermittent spills and continuous contact up to 72 hours
3. Suitable for intermittent spills, when followed promptly by water flushing
4. Not recommended
5. * Coating stains when exposed to this chemical

General Information

Moisture Vapor Emissions/Alkalinity Precautions

All interior concrete floors not poured over an effective moisture vapor retarder meeting ASTM E 1745 Standard Specification for Plastic Water Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs and ACI 302.2R Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials are subject to possible excessive moisture vapor transmission (above 3 lbs.) and excessive relative humidity (above 80%) that may lead to blistering and failure of the coating system. It is the polyurethane cement mortar applicator's responsibility to conduct either or both ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride or ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes to determine if excessive levels of moisture are present before applying any cementitious polyurethane mortars. Polyset and its sales agents will not be responsible for cementitious polyurethane mortar failures due to undetected excessive moisture vapor emissions or excessive relative humidity. Consult Polyset for information on moisture remediation products.

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Acetic Acid, 10%	1	Ethyl Acetate	1
Acetic Acid, 25%	2	Ethyl Alcohol	1
Acetic Acid, 50%	3	Formaldehyde	1
Acetic Acid, Glacial	3	Formic Acid 25%	1
Acetone	2	Gasoline	1
Aluminum Chloride	1	Hydrobromic Acid, 48%	*1
Aluminum Nitrate	1	Hydrochloric Acid, 37%	*1
Aluminum Sulfate	1	Hydrofluoric Acid, 25%	2
Ammonium Hydroxide	1	Hydrogen Peroxide, 30%	1
Aniline	3	Jet Fuel	1
Antifreeze (Ethylene Glycol or Propylene Glycol)	1	Isopropyl Alcohol	1
Barium Chloride	1	Maleic Acid, 40%	2
Barium Hydroxide	1	Methanol	1
Barium Sulfide	1	Methylene Chloride	3
Beer	1	Methyl Ethyl Ketone (MEK)	2
Benzene	1	Mineral Spirits	1
Betadine	*1	Motor Oil	1
Boric Acid	1	Mustard	1
Brake Fluid	1	Nitric Acid, 10%	*1
N-Butyric Acid, 50%	3	Nitric Acid, 30%	*2
Calcium Chloride	1	Nitric Acid, 50%	*3
Calcium Hydroxide	1	Oleic Acid	1
Calcium Nitrate	1	Phosphoric Acid, 85%	2
Calcium Sulfate	1	Potassium Chloride	1
Chloroform	1	Potassium Cyanide	1
Chromic Acid, 50%	*1	Potassium Hydroxide	1

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Resistance Properties of Ply-Guard EP NOV			
Citric Acid, 50%	1	Potassium Nitrate	1
Coffee	1	Potassium Sulfate	1
Cola Syrup	1	Skydrol	*1
Copper Chloride	1	Sodium Hydroxide, 50%	1
Copper Nitrate	1	Sodium Chloride	1
Diesel Fuel	1	Sulphuric Acid, 50%	*1
ECOLABS PRODUCTS DDILUTED per ECOLABS RECOMMENDATIONS		Sulphuric Acid, 98%	*1
• Boost 3200 Diluted 12 fl. oz per Gal Water	2	Tetrahydrofuran	3
• Boost 3201 Dilute 12 fl. oz. per Gal Water	2	Toluene	1
• Exelerate HS Diluted 1 fl. oz per Gal Water	2	Transmission Fluid	1
• Konduct Alkaline Cleaner Na ₂ O 12.3%	2	Trichlorethylene	3
• Mandate Plus Diluted 1 fl. oz per 3 Gal Water	2	Trichloroethane	1
• Passivation Acid Diluted 50% Water	2	Urea	1
• Ster-Bac Quat Dilated 1 fl. oz per 3 Gal Water	3	Vegetable Oil	1
• Synerge Diluted 1 fl. oz per 4 Gal Water	2	Whiskey	1
• VORTEXX Diluted 6 fl. oz per Gal Water	2	Xylene	1
• XY-12 Diluted 12 fl. oz per Gal Water	2		

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