

Ply-Guard EP (Flex)

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.

1. Applying Ply-Guard EP (Flex) as a coating the 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.
2. Control Joint and Wide Crack side walls should be mechanically abraded. Control joints can be abraded with a single or gang diamond grinding disk.

Mixing Instructions

If using regular cure material, pot life is 45 minutes at 77° F (25°C). Pot life of fast cure material is 20 minutes. Working time is shortened by higher temperatures. When coating, pour the material on the floor immediately after mixing will extend the 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. Ply-Guard EP (Flex) Paste will require more time in placement, mixing smaller, easier to handle quantities are recommended. **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 (Flex) liquid when used as a coating may be applied by roller, trowel or squeegee. When filling control joints or wide cracks mix only the amount of material that must be placed within the material working time. Ply-Guard EP (Flex) liquid is normally poured into a control joint that has been previously filled one half inch from the top with a fine sand filler which acts like a blotter reducing the amount of Ply-Guard EP (Flex) liquid demand. Ply-Guard EP (Flex) Paste can be troweled or placed with an Albion Bulk Load Caulking Gun into a control joint.

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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Control Joint Installation Coverage

Installation coverage will vary with application method, width, and depth of control joint to be filled. There are 231 cubic inches per gallon of Ply-Guard EP (Flex).

General Information

Moisture Vapor Emissions/Alkalinity Precautions

All interior concrete floors not poured over an effective moisture vapor retarder meeting ASTM E1745 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.

Approximate Yield		
Width Per Inch	Depth Per Inch	Linear Feet Per Inch
1/8	1/8	1200
1/8	1/4	600
1/8	1/2	300
1/8	3/4	200
1/8	1	150
1/4	1/8	600
1/4	1/4	300
1/4	1/2	150
1/4	3/4	100
1/4	1	75
1/2	1/8	300
1/2	1/4	150
1/2	1/2	75
1/2	3/4	50
1/2	1	37
1	1/8	150
1	1/4	75
1	1/2	37
1	3/4	25
1	1	19

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