

## Ply-Barrier

Ply-Barrier is a specially formulated 100% solids epoxy coating designed for use over concrete with high moisture levels for the purpose of isolating the concrete from moisture sensitive flooring. This system should only be used over concrete that has never been treated with reactive silicate curing compounds or densifiers.

Ply-Barrier has been formulated with low viscosity and excellent substrate wetting capabilities to promote penetration and adhesion. The special hydrophobic curing agent allows for adhesion to damp or wet concrete. In addition, the Ply-Barrier formula contains Bisphenol F epoxy, which gives the material enhanced chemical crosslinking over products based solely on standard Bisphenol A epoxy. More crosslinking helps to reduce the coating's moisture permeability and increases its long-term resistance to water and alkalinity. The material does not contact unreacted amines, plasticizers, or alkylphenols that could migrate out of the cured coating and trigger osmotic blistering.

Ply-Barrier can be applied to concrete at temperatures between 40-100°F and works to reduce the Moisture Vapor Emission Rate (MVER) up to 15 lbs/24 hours per 1,000 square feet. Ply-Barrier may be used in new construction settings when a schedule must be met, yet the concrete is not dry enough to install moisture-sensitive flooring.

The chemical composition is modified Bisphenol F epoxy crosslinked with a hydrophobic amine curing agent. Cured product contains no unreacted, migrating components.

## Technical Bulletin

### Product Data

<b>Mix Ratio, by volume:</b>	Supplied in pre-measured kits only
<b>Solids Content, %:</b>	100
<b>Volatile Organic Compounds (VOC), gr./lt.:</b>	0
<b>Viscosity, (77°F) cps:</b>	400
<b>Hardness, Shore D (ASTM D2240):</b>	80
<b>Recommended Coverage Rate (ft<sup>2</sup>/gal.):</b>	100-115
<b>Pot Life, Regular Cure, 1 Quart Mass, (77°F) minutes:</b>	35
<b>Cure Times, Regular Cure 77°F</b>	
Dry to Touch, Hours:	6
Recoat, Hours:	18-24
Walk on Time, Hours:	6-8
Drive on Time, Days:	7
Critical Recoat Window, Hours:	12

Pot life is reduced by increasing temperature and/or mass. Cure times are shortened by higher temperatures and extended by cooler temperatures.

### Colors & Limitations

- Available in clear (only)
- Concrete must be clean and have a SCP profile of 3-4 (texture similar to 60-80 grit sandpaper)
- Must be applied at recommended 14-16 WFT
- 100% solids epoxy coatings applied over shotblasted, unprimed concrete may exhibit outgassing bubbles; these bubbles are self-sealing and have been proven not to reduce the effectiveness of the coating

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