



## Applications Guide

### PM100 SERIES

#### Includes PM100, PM101, PM150 & PM152

**Milamar's PM100 Series** epoxy coating is a very durable, chemical and abrasion resistant seamless floor finish. It can be used as a "stand alone" coating, as a primer coat, as a binder for troweled and slurry floors or as a clear or tinted top or finish coat for other PolyMax Seamless Floors.

#### COMPONENTS

PM100, PM101, PM150, PM152 - Part "A" Clear Epoxy

PM125 - Part "B" Standard Hardener

Optional: PM126 - Part "B" Rapid Cure Hardener

PM127 - Part "B" Fast Cure Hardener

(Mix ratio is 2 parts "A" to 1 part "B" by volume)

Note: Fast/rapid cure Hardeners are not recommended as finish coats. Blushing is possible.

Optional: PM Color Packs for use with PM100 or PM101 clears.

(Mix ratio is 1 quart PM Color Pack to 3 mixed gallons of "A" & "B")

Optional: Various grades of quartz, granite or white aluminum oxide aggregate can be added for additional slip resistant properties.

#### RECOMMENDED CLEAR COAT COVERAGE RATE

Average - 200 sq. ft. per gallon per coat

NOTE: Consumption rate will be dramatically higher on a porous substrate

**PREPARATION**  
(See Floor Preparation Section)

**CAUTION**

**Make certain all personnel has read and fully understood all safety precautions on product labels and Material Safety Data Sheets.**

**INSTALLATION**

**Step 1. Mixing**

Carefully mix 1 gallon of PM100/101/150/152 Part "A" with 1/2 gallon PM125/126/127 Part "B" Hardener. Mixing should be done with a 1 gal. Jiffy Mixer and a low speed drill (max. 650 rpm) for a minimum of 2 minutes.

**Step 2. Priming or First Coat**

PM100 Series is normally a self-priming system. Pour entire contents of mix onto floor in a continuous ribbon. Slowly move and level the mixture with a flat squeegee or trowel, then back roll with a medium nap phenolic core roller to remove any squeegee or trowel marks. A standard 1 ½ gallon mix should cover approximately 300 sq.ft. (200 sq.ft. per gallon) but this will vary depending upon the porosity and texture of the concrete.

NOTE: Larger quantities of epoxy may be mixed if there is sufficient manpower to squeegee and roll before epoxy begins to set up. Working time is approximately 25 minutes. for PM100 Series with PM 125 Hardener, 15 minutes for PM100 Series with PM126 Hardener and 10 minutes for PM100 Series with PM127 Hardener at 75° F.

If slip resistant aggregate is to be added, lightly and evenly broadcast aggregate into first coat (Step 2) after back rolling but before the epoxy begins to set.

To enhance even distribution of aggregate, it is recommended that the broadcast installer wear spiked shoes (old golf shoes are acceptable) to allow him to walk in the wet epoxy and stay close to the broadcast area.

Cure Time: Before applying the topcoat, allow to cure 10 hours when using PM125 Hardener, 7 hours when using PM126 Hardener and 3 hours when using PM127 Hardener at 75° F.

**Step 3. Top Coat Application (Optional but Recommended when used as coating)**

Although PM100 Series can be installed in one application, we recommend that PM100 Series be installed in two coats to improve finish and durability.

When floor is no longer tacky, approx. 10 hrs. @ 75° F, repeat Step 2. Aggregate should not be incorporated in second coat. Coverage of PM100 Series will be approx. 300 sq.ft. per 1 ½ gallon mix (200 sq. ft. per gallon) on topcoat.

NOTE: If first coat has cured over 24 hours before additional coats can be applied, the receiving coat should be lightly sanded with a medium grit sanding pad and then vacuumed or swept to remove dust or debris.

#### **Using PM Color Packs.**

Mix PM100 or 101/PM125 as noted above in Step 2. After thoroughly mixing, add PM Color Pack at the rate 10 to 16 ounces per 1 ½ gallon mix (or 1 quart container per 3 to 4.5 mixed gallons). Thoroughly mix till uniform in color. Continue with application Step 3 above. The amount of PM Color Pack can vary by 1 to 2 ounces without affecting the cure of the PM100 Series but the same amount of PM Color Pack must be added to each mix for color uniformity.

#### **Return to Service**

Normally allow new floor to cure a minimum of 24 hours @ 75° F before returning floor to light duty service and 36 hours @ 75° F before returning floor to full service. Be certain that the floor is no longer tacky and hard before turning over to customer. When using rapid cure hardener floor can be returned to service sooner.

The information above is to be used as a guideline. The coverages and times provided may vary due to temperature, humidity, mixing time, concrete surface and preparation used.

Note: Use of fast cure products especially when humidity is over 50% can cause blush. Blush can affect intercoat adhesion. Consult manufacturer if you experience this condition. PM127 Hardener is never recommended for use as a finish coat.