



## Application Guide

### PM 5000 AC

Milamar's PM 5000AC System is comprised of three coats. This system is a light reflective, UV stable chemical and abrasion resistant seamless floor. It is comprised of an epoxy primer and/or color bond coat, pigmented epoxy intermediate coat and a chemical resistant urethane topcoat.

#### **COMPONENTS**

- **Primer**
  - Primer LV
- **Intermediate Coat**
  - PM 200 "A" - Fully Pigmented Industrial Epoxy
  - PM 200 "B" - Hardener
- **Finish Coat**
  - PM 500 - Part "A" Ultra Chemical Resistant Urethane
  - PM 500 - Part "B" Hardener
  - (Mix ratio is 2 parts "A" to 1 part "B" by volume)
- *OPTIONAL*: Various grades of quartz, granite or white aluminum oxide aggregate can be added for additional slip resistant properties.

#### **RECOMMENDED COVERAGE RATE**

- 200 sq. ft. per gallon (Epoxy Primer)
- 200 sq. ft. per gallon (Epoxy Intermediate Coat)
- 200 sq. ft. per gallon (Urethane)

*NOTE*: Consumption rate will be dramatically higher on non-primed or 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**

Milamar products shall be mixed according to Milamar instructions. Mixing should be done with a 3.5" jiffy mixer and a low speed drill (max. 650 rpm) for a minimum of 2 minutes.

*NOTE*: Larger quantities of epoxy may be mixed if there is sufficient manpower to squeegee and roll before epoxy begins to set up.

## Step 2. Priming

Milamar primer, Primer LV is designed to be applied by a squeegee then slowly back rolled. Do not entrain air into the primer by vigorous rolling action. PM 375 Oil Tolerant Primer can be used instead of Primer LV on petroleum oil contaminated surfaces.

## Step 3. Application of Primer

Pour entire contents of mix onto floor in a continuous ribbon. Slowly move and level the mixture with a flat squeegee then back roll with a medium nap 3/8" 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 20 minutes for Primer LV.

If slip resistant aggregate is to be added, we suggest it be added to the epoxy primer or intermediate coat for better adhesion.

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: Allow to cure until surface is tack free.

**CAUTION:** If oily film caused by unusual environmental conditions is present on first coat, call TELE TECH at 1-800-459-7659 for information on removal before applying additional coats.

*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 and wiped with a solvent to remove dust or debris.

## Step 3. Application of Intermediate Coat

When epoxy primer is no longer tacky, mix PM 200 Parts "A" & "B" as noted above in Step 1. 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 3/8" 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 may vary depending upon the job specification. *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 30 minutes @ 75°F for PM 200.

## Step 4. Application of Urethane

When epoxy intermediate coat is no longer tacky, carefully mix 1 gallon of PM 500 Part "A" with 1/2 gallon PM 500 Part "B". Mixing should be done with a Jiffy Mixer and a low speed drill (maximum 650 rpm to avoid bubbling) for a minimum of 2 minutes. Be sure to premix PM 500 Part "A" before mixing with Part "B" as settling may occur during shipping and storage.

Pour entire contents of mix onto floor in a continuous ribbon. Slowly move and level the mixture with a flat squeegee or trowel, then backroll with a medium nap, phenolic core roller to remove any squeegee or trowel marks. A standard 1 1/2 gallon mix should cover approximately 300 sq.ft. (200 sq.ft. per gallon). Working time is approximately 20 minutes @ 75°F for PM 500. Aggregate should not be incorporated in final coat.

## Return to Service

Normally allow new floor to cure a minimum of 24 hours @ 75° F before returning floor to light duty service and 48 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. Vehicles with rubber tires should not be parked on finished system within 48 hours of installation at 75°F.

**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.**

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