



# Mapefloor<sup>TM</sup> PU Primer

## Two-Component Polyurethane Primer



### DESCRIPTION

*Mapefloor PU Primer* is a two-component, polyurethane-based primer that can be used for initial application of *Mapefloor* parking deck systems or as a recoat primer for already installed polyurethane deck systems.

### FEATURES AND BENEFITS

- Quick-setting
- Easy-to-apply viscosity
- Can be used over mechanically prepared concrete
- Can be used as a recoat primer over sound, in-place polyurethane membranes

### WHERE TO USE

- *Mapefloor PU Primer* should be used on elevated slabs where a *Mapefloor* parking deck system is being utilized.

### SURFACE PREPARATION

#### For use in initial application

- Concrete surfaces must be clean, dry, stable and sound. They must be clean of all tar, dirt, oil, paint and any foreign debris that may interfere with proper bonding of the primer.
- Concrete must be mechanically profiled in accordance with the *Mapefloor* Parking Deck systems installation manual.

#### For use as a recoat primer

- Surface must be well adhered and free of cracks, gouges and delamination to be suitable as a substrate for recoating.

- Remove all oils, automotive fluids, sand and any foreign debris that may interfere with proper bonding of the primer.
- Wipe the application area with a strong solvent such as xylene and allow it to flash off, to aid in removing any moisture from the surface.

### MIXING

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

1. Premix Part A and Part B separately.
2. Add Part B to Part A and mix at low speed for 2 to 3 minutes or until a homogenous consistency is achieved.

### APPLICATION PROCEDURE

Read all installation instructions thoroughly before installation.

1. Apply *Mapefloor PU Primer* immediately to the prepared substrate by roller or squeegee at 320 to 530 sq. ft. per U.S. gal. (7.84 to 13.0 m<sup>2</sup> per L) to obtain a wet film thickness (WFT) of 3 to 5 mils.
2. Ensure that there are no puddles and that all pores of the concrete are coated.
3. Allow to cure.

### CLEANUP

- Before hardening, *Mapefloor PU Primer* may be removed from surfaces, tools, clothing, etc., with toluene or xylene. After hardening, it may only be removed mechanically.

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## LIMITATIONS

- Do not use on dusty or flaky surfaces.
- Do not use on surfaces that are damp.
- Do not use on surfaces that are dirty with oil, grease or stripping compounds; the bonding could be compromised.
- Do not use on bituminous surfaces where the bleeding of oil may be present.
- Do not apply if the temperature is lower than 41°F (5°C).
- Installation of the polyurethane basecoat must be completed over *Mapefloor PU Primer* within 24 hours of initial application. If this time elapses, solvent-wipe with xylene and reapply *Mapefloor PU Primer*.

## Product Performance Properties

Laboratory Tests	Results
Solids content	100%
Viscosity of mixture (#3 at 50 rpm)	Approximately 500 cps
Viscosity of Part A (#3 at 50 rpm)	Approximately 750 cps
Viscosity Part B (#2 at 50 rpm)	Approximately 100 cps
Density of Part A	0.9754 g per cm <sup>3</sup>
Density of Part B	1.200 g per cm <sup>3</sup>
Density of mixture	1.10 g per cm <sup>3</sup>
Pull-off adhesion/bond strength – ASTM D7234	
At 28 days	> 400 psi (2.76 MPa) with failure in concrete substrate
VOCs (Rule #1168 of California's SCAQMD)	0 g per L
Flash point (Seta flash)	> 199°F (93°C)

## Shelf Life and Product Characteristics before mixing

Shelf life	1 year in original, unopened container. Store at 40°F to 95°F (4°C to 35°C).
Chemistry	2-part, 100%-solids polyurethane
Consistency	Pourable liquid
Color	Part A: Transparent yellow Part B: Transparent amber

## Application Properties

Pot life at 73°F (23°C)	35 minutes
Drying time at 73°F (23°C)	4 to 6 hours

## CSI Division Classification

Dampproofing and Waterproofing	07 10 00
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## Packaging

Size
Pail: Part A, 1.79 U.S. gals. (6.78 L)
Pail: Part B, 1.82 U.S. gals. (6.89 L)

## Approximate Coverage\*

Thickness	Coverage
WFT of 3 to 5 mils	320 to 530 sq. ft. per U.S. gal. (7.84 to 13.0 m <sup>2</sup> per L)

\* Coverage rates may vary based on porosity and surface profile.

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Refer to the SDS for specific data related to health and safety as well as product handling.

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