



# TerraPrime

## Technical Data Sheet

### Product Description

**TerraPrime** is designed to be used as a concrete sealer or as a primer/build coat systems such as **TerraSeal**, **TerraChip**<sup>®</sup>, **TerraQuartz**<sup>®</sup> and **TerraTono**<sup>®</sup>. It has excellent adhesion to damp concrete and provides a blush free finish. **TerraPrime** is available in 2 curing speeds - **TerraPrime** and **TerraPrime Redline**.

**TerraPrime** is a two component 100% solids epoxy coatings cured with a polyamide. It is generally supplied clear.

### Features and Benefits

**Excellent Adhesion:** May be applied over damp concrete (standard version).

**Versatile:** working time and rapid curing speed provide excellent versatility for a variety of applications.

**Quick Curing:** Less downtime before final coating application.

**Nonporous:** Prevents chemical migration to the substrate which can cause disbonding and environmental contamination.

**100% Solids:** Low odor makes it ideal for use in Pharmaceutical and Food & Beverage facilities.

### Applications

Pharmaceutical Plants  
Food and Beverage Plants  
Commercial Kitchens  
Dairies  
Wastewater Treatment  
Loading Docks  
Warehouses  
Production Lines

### Application Overview

#### Environment

Apply when air, surface, and material temperatures are between 55°F and 100°F (RedLine version between 35°F and 90°F). The surface temperature must be at least 5° above the dew point to prevent moisture condensation.

#### Substrate

The concrete must be structurally sound and free of oil, grease, and other contaminants. When applying directly to concrete, the concrete must first be prepared by shot blasting, scarifying or acid etching to create a surface profile equivalent to 40-60 grit sandpaper.

#### Mixing

Part “A” should be mechanically pre-mixed for 60 seconds before adding Part “B”. After adding Parts “A” and “B” together, mix for 90 seconds. Do not hand mix.

#### Application

Immediately pour activated product on the substrate and, using a squeegee, pull out the material at the desired coverage rate.

#### Rolling

Using a 3/8” nap non-shedding roller, roll the product in both directions to ensure even coverage.

#### Recoating

If additional coats are desired, they must be applied within 24 hours, or the cured material must be sanded before application.

### Recommended Uses

- Concrete Sealer
- Build Coat for anti-skid systems
- Primer for thin film and decorative systems.

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## Product Limitations

### Rising Temperatures

Concrete will outgas during periods of rising temperatures. To prevent bubbling, always apply when the application and cure temperatures will be constant or decreasing.

### Cracks

Moving cracks in the substrate are likely to transfer to the coating unless treated properly.

### Moisture

All concrete surfaces should be tested for moisture before applying a seamless coating. Water vapor transmission upwards through on-grade (or below grade) concrete slabs may result in system failure. If moisture emissions exceed 3 lbs./1000 sq. ft./24 hours per ASTM F1869, or concrete relative humidity exceeds 75% per ASTM F2170, use of TerraPrime MM may be required prior to application of the coating system. Contact the manufacturer before application.

## Safety

This product is intended to be installed by experienced professionals. Read the SDS and product label for complete safety information before using. Avoid contact with all materials to prevent irritation. Use only with adequate ventilation.

Safety glasses, gloves, and protective clothing should be worn at all times while handling this product. Avoid exposure to eyes and skin as isocyanate resins and amine hardeners can cause mild to severe skin irritation.

## Maintenance

Do not wash the floor within 5 days of installation. Exposure to water before the floor is completely cured may dull the finish. Damp mop as needed with a clean mop head and clean, warm water with a mild detergent or degreaser. Rinse thoroughly to avoid leaving residue. When using a new cleaner for the first time, test clean an inconspicuous area to ensure compatibility with the floor.

## Storage

Store material in a cool, dry location away from flames. When stored properly, the shelf life will be a minimum of 1 year.

## Warranty

American Industrial warrants its products to be free of defects in material and workmanship. This warranty specifically excludes the following: problems due to irregularities in the substrate, failures caused by moisture migration through the substrate, changes in color and gloss. Claims must be made within 12 months of installation of material.

## Physical Properties

<b>Components</b>	2	
<b>Mix Ratio (A:B)</b>	2:1	
<b>Solids</b>	100%	
<b>Packaging</b>	3 gallon kit	2 gal A/1 gal B
<b>Coverage</b>	125-200 sqft/gallon	
<b>Application Temperature</b>		
TerraPrime	55°F-100°F	
TerraPrime RedLine	35°F-90°F	
<b>Viscosity (mixed)</b>		
TerraPrime	550 cps	
TerraPrime RedLine		
<b>Working Time (72°F)</b>		
TerraPrime	30 minutes	
TerraPrime RedLine	20 minutes	
<b>Cure Time</b>		
TerraPrime	10 hours (foot traffic) 10-24 hours (recoat)	
TerraPrime RedLine	4 hours (foot traffic) 4-8 hours (recoat)	
<b>Flash Point</b>	Part A: >200°F Part B: >200°F	
<b>Shelf Life</b>	12 months	
<b>USDA: Food and Beverage</b>	Meets requirements.	

## Performance Properties

<b>Adhesion</b> (ASTM D-4541)	>450 psi (concrete fails)
<b>Hardness</b> (ASTM D-2240)	84 Shore D
<b>Abrasion Resistance</b> (ASTM D-4060) cs-17 wheels, etc	74 mgs.
<b>Maximum Service Temperature</b>	180°F

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