



# TerraThane®

## Technical Data Sheet

### Product Description

**TerraThane®** is a two component polyurea. It is supplied clear and is available in 3 different curing speeds: **TerraThane**, **TerraThane RedLine** and **TerraThane BlueLine**. It is also available in a satin finish – **TerraThane Satin**.

**TerraThane** is designed to be used as a finish coat for the **TerraChip®**, **TerraQuartz®** and **TerraSeal** decorative systems. It provides a high gloss finish, outstanding wear protection, and excellent stain resistance. **TerraGrip** can be added to **TerraThane** to provide slip resistance. Pigment packs are available in limited colors for the **TerraThane**.

### Features and Benefits

**Non-yellowing:** Provides unsurpassed gloss and color stability

**Rapid Cure:** Provides quick turnaround to minimize downtime

**Durable:** Provides excellent resistance to mechanical wear and continual cleanup

**Sanitary:** Seamless, non-porous finish results in easy cleanup

**Stain Resistant:** Provides resistance to a variety of chemicals and cleaners. Consult your installer for specific recommendations.

**Chemical Resistant:** Provides resistance to a variety of chemicals. Consult your installer for specific recommendations.

### Application Temperature Guidelines

The surface temperature must be at least 5° above the dew point to prevent moisture condensation.

TerraThane BlueLine	70°F-110°F
TerraThane	45°F-90°F
TerraThane RedLine	35°F-80°F
TerraThane Satin	45°F-90°F

### Application Overview

#### Environment

Apply when air, surface, and material temperatures are in the recommended range for TerraThane version being applied. The substrate 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. The concrete must be prepared to a surface profile of CSP 2 to 3 by diamond grinding or light shot blasting

#### 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 floor and, using a squeegee, pull out the material at the desired coverage rate. TerraThane is best applied with a short, thin, flexible squeegee.

#### 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.

**Please refer to Application Instructions for complete application details. Information here is summarized and is to be used only as a guideline.**

### Recommended Uses

- Finish coat for TerraChip® System
- Finish coat for TerraQuartz® System
- Finish coat for TerraSeal System

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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, 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 clean, warm water and 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>		
TerraThane		100%
TerraThane BlueLine		90%
TerraThane Redline		90%
TerraThane Satin		90%
<b>Packaging</b>	3 gallon kit	2 gal A/ 1 gal B
<b>Coverage</b>		
Chip System	Single Topcoat	125-175 sq.ft./gallon
	2 <sup>nd</sup> Topcoat	200-250 sq.ft./gallon
<b>Viscosity (mixed)</b>		
TerraThane		200 cps
TerraThane BlueLine		150 cps
TerraThane RedLine		150 cps
TerraThane Satin		250 cps
<b>Working Time (75°F)</b>		
TerraThane		20 minutes
TerraThane BlueLine		25 minutes
TerraThane RedLine		15 minutes
TerraThane Satin		15 minutes
<b>Cure Time</b>		24 hours (foot traffic) 72 hours (full service)
<b>Flash Point (all versions)</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>Hardness</b> (ASTM D-2794)	80 Shore D
<b>Abrasion Resistance</b>	
TerraThane	50 mgs.
TerraThane BlueLine	45 mgs.
TerraThane RedLine	31 mgs.
TerraThane Satin	35 mgs.
(ASTM D-4060) cs-17 wheels, 1000 grams, 1000 cycles	
<b>Flexibility</b> (ASTM-D522)	passes
<b>Maximum Service Temperature</b>	180°F

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