



TC BaseCoat

Technical Data Sheet

Product Description

TC BaseCoat is designed to be used as the basecoat of the **TerraChip®** System. It is supplied pigmented and is self priming. Scrape times for TC Basecoat can be adjusted by using one, or a blend, of the 3 BaseCoat hardeners—Standard, Redline, and Infrared.

TC BaseCoat is a two component 100% solids epoxy.

Features and Benefits

Excellent Adhesion: Concrete fails before bond. Standard version can be applied over damp concrete.

Adjustable Cure: 3 different speeds of hardener can be mixed and matched to minimize down time.

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

Aesthetic: Provides an attractive finish as part of the TerraChip flooring system. Designed to hold chips in place to ensure a rich, even pattern.

Application Temperature Guidelines

TC BaseCoat	45°F-110°F
TC BaseCoat Redline	40°F-80°F
TC BaseCoat Infrared	35°F-55°F

Application Overview

Environment

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. 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 90 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.

TerraChip Aggregate

Broadcast the chips in an upward motion to allow them to rain onto the surface evenly. Broadcast within 30 minutes of application of TC BaseCoat (time will vary with temperature and version used). 16 pounds of chips are required for 100 square feet.

Scraping

Remove the excess chips by scraping. Vacuum the surface. Apply appropriate clear coat(s) as directed.

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

Recommended Uses

- Basecoat for TerraChip System
- Primer or build coat

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.

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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

Components	2
Mix Ratio (A:B)	2:1
Solids	100%
Packaging 3 gallon kit	2 gal A/1 gal B
Coverage (chip system)	150 sq. ft./gallon
Viscosity (mixed)	11,000 cps
Pot Life (8 oz. @ 72°F)	40 minutes
Working Time	
TC BaseCoat (75°F)	30 minutes
TC BaseCoat Redline (75°F)	20 minutes
TC BaseCoat Infrared (45°F)	20 minutes
Scrape Time	
TC BaseCoat (75°F)	4.5 hours
TC BaseCoat Redline (75°F)	1.5 hours
TC BaseCoat Infrared (45°F)	1.5 hours
Flash Point	Part A: >200°F Part B: >200°F
Shelf Life	12 months
USDA: Food and Beverage	Meets requirements.

Performance Properties

Adhesion (ASTM D-4541)	>450 psi (concrete fails)
Hardness	
TC BaseCoat	82 Shore D
TC BaseCoat Redline	82 Shore D
TC BaseCoat Infrared	84 Shore D
(ASTM D-2240)	
Abrasion Resistance (ASTM D-4060) cs-17 wheels, etc	55 mgs.
Maximum Service Temperature	180°F

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