



TerraChip[®] Base

Technical Data Sheet

Product Description

TerraChip Base is designed to be used as the basecoat of the **TerraChip[®]** System. **TerraChip Base** has excellent working time and a quick cure. It can be ready for scraping of the excess chips in as little as three hours, maximizing application efficiency and minimizing facility downtime.

TerraChip Base is a two component 100% solids epoxy. It is typically tinted Light Gray, White, or Tan.

Features and Benefits

Excellent Adhesion: May be applied over damp concrete

Rapid Cure: Minimizes downtime. Ready for scraping in 5 hours at 70°F, 3 hours at 90°F

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

Sanitary: Can be applied as an integral cove base and wall coating. Seamless finish results in easy cleanup

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

Quick Curing: Available in standard version and a Quick Cure version

Applications

Pharmaceutical Production and Storage Areas

Laboratories

Food and Beverage Processing Areas

Cafeterias and Kitchens

Garages

Hospitals and Health Care Facilities

Lobbies, Aisles, and Offices

Showrooms

Laundries

Airplane Hangars

Restrooms, Showers and Locker Rooms

Animal Holding Areas

Application Overview

Environment

Apply when air, surface, and material temperatures are between 65°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.

TerraChip Aggregate

Broadcast the chips in an upward motion to allow them to rain onto the surface evenly. Broadcast within 15 minutes of application of TC BaseCoat. 16 pounds of chips are required for 100 square feet.

Sealer

Remove the excess chips by scraping. Vacuum the surface. Apply **TerraThane** at 100-150 square feet/gallon

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

The technical data and suggestions presented here are believed to be reliable and accurate at the time of publication. American Industrial makes no warranty, expressed or implied, based on this literature. Published technical data and recommendations are subject to change without notice.

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 MSDS 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	150 sq. ft./gallon	
Application Temperature	65°F-90°F	
Viscosity (mixed)	11,000 cps	
Pot Life (8 oz. @ 72°F)	40 minutes	
Working Time (72°F)	35 minutes	
Cure Time (72°F)	5 hours (foot traffic) 5-24 hours (recoat)	
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)	>250 psi (concrete fails)
Hardness (ASTM D-2240)	84 Shore D
Abrasion Resistance (ASTM D-4060) cs-17 wheels, etc	55 mgs.
Maximum Service Temperature	180°F

The technical data and suggestions presented here are believed to be reliable and accurate at the time of publication. American Industrial makes no warranty, expressed or implied, based on this literature. Published technical data and recommendations are subject to change without notice.