



TerraQuartz® Base

Technical Data Sheet

Product Description

TerraQuartz® Base is designed to be used as the basecoat of the **TerraQuartz® System**. It is supplied clear and is self priming. Cure time for **TerraQuartz Base** can be accelerated by using **TerraQuartz Base RedLine** hardener.

TerraQuartz Base is a two component 100% solids epoxy. It is generally supplied clear.

Features and Benefits

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

Rapid Cure: 2 curing options allow for custom cure speed, minimizing downtime.

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 TerraQuartz flooring system. Designed to accept colored quartz evenly.

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 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.

TerraQuartz Aggregate

Broadcast the quartz in an upward motion to allow it to rain onto the surface evenly. Broadcast within 30 minutes for the TQ BaseCoat. Broadcasting to rejection will require approximately 50 pounds of quartz per 100 square feet.

Second Broadcast

Remove excess quartz by sweeping and vacuuming. Apply a second coat of TQ BaseCoat and broadcast quartz to rejection.

Sealer

Remove the excess quartz. Apply **Sealer LS** at 80-100 square feet/gallon. A finish coat of **TerraThane®** is applied to achieve the desired texture.

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

Recommended Uses

- Basecoat for TerraQuartz 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 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 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	100 sq. ft./gallon	
Application Temperature		
TerraQuartz Base	55°F-90°F	
TerraQuartz Base RedLine	35°F-80°F	
Viscosity (mixed)		
TerraQuartz Base	800 cps	
TerraQuartz Base RedLine	1000 cps	
Working Time (72°F)		
TerraQuartz Base	35 minutes	
TerraQuartz Base RedLine	20 minutes	
Cure Time (72°F)		
TerraQuartz Base	6-8 hours (foot traffic) 6-24 hours (recoat)	
TerraQuartz Base RedLine	3-4 hours (foot traffic) 3-12 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)	>450 psi (concrete fails)
Compressive Strength (ASTM D-695)	13,300 psi
Flexural Strength (ASTM D-790)	6,200 psi
Tensile Strength (ASTM D-638)	3,100 psi
Hardness (ASTM D-2240)	84 Shore D
Maximum Service Temperature	180°F

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