Sanitile® 933 TC

Product Data

Description
Sanitile 933 TC is a 4-part polyurethane coating which is used as a topcoat for Sanitile 933 Slurry.

Uses
Is used as a topcoat for Sanitile 933 in order to give it a slip resistance profile, while retaining chemical resistance and durability.

Benefits
- Contains Polygiene, an antimicrobial additive based on silver ion technology
- Easy to clean and sterilize anti-slip surface, minimal joints
- Heat resistant to 200°F (93)°C
- Steam cleanable, non-tainting, non-dusting
- High abrasion and chemical resistance
- Withstands high mechanical stress
- Good alternative to expensive acid resistant tiles
- 100% Solids, low odor, low VOC
- Positive slip resistance

Substrate Requirements
Concrete or screed substrate should be free from laitance, dust and other contamination. The substrate should be dry to 75% RH as per BS8204 and free from rising damp and ground water pressure.

Components
Topping: Sanitile 933 TC Part A / Part B
Filler: Reactive Filler #6
Pigment Pack: Sanitile Pigment Pack

Limitations
Sanitile 933 TC is not color fast and may change color over time (exhibits a yellowing effect). Color change depends on the UV light and heat levels present and hence the rate of change cannot be predicted. This is more noticeable in light colors and blues but does not compromise the product's flexibility or chemical resistance characteristics. Colors have been adapted within our standard range to minimize this change.

Microbial / Fungal Resistance
The Polygiene antimicrobial additive incorporated into Sanitile 933 TC provides control of most bacteria and fungi which come into contact with the floor.

Technical Information
The figures that follow are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity.

Compressive Strength	> 7,250 psi (ASTM C 579)
Tensile Strength	1,740 psi (ASTM C 307)

Technical Information (Continued)

Coefficient of thermal expansion	2.2×10^{-5} in/in/°F (ASTM C 531)
Impact resistance	No visible damage or deterioration at minimum 160 in-lb
Flexural strength	2,900 psi (ASTM C 580)
Modulus of elasticity	1.7×10^{5} (ASTM C 469)
Water absorption	< 0.1%
Abrasion Resistance	0.07 mg loss (ASTM D 4060) CS-17 Wheel, 1,000 cycles
Adhesion	400 psi (ASTM D 4541) 100% concrete failure
Coefficient of friction	Passes ADA recommendations (ASTM D 2047)
Chemical resistance	Excellent resistance to sugars and most acids (organic and inorganic)

Colors
Mid Gray (Q703), Dark Gray (Q704), Red (Q501), Green (Q301), Blue (Q101), Cream (Q202)

Carboline Company
Sanitile 933 TC

Speed of Cure	50°F	70°F	85°F
Light traffic	36 hrs	24 hrs	12 hrs
Full traffic	72 hrs	48 hrs	24 hrs
Full chemical cure	10 days	7 days	5 days

Aftercare - Cleaning and Maintenance

Clean regularly using a single or double headed rotary scrubber drier in conjunction with a mildly alkaline detergent.

Application Instructions

Preparation/Substrate

Surfaces to be coated should be sound and provide adequate strength for the proposed end use with a minimum compressive strength of 3625 psi. Substrate should be surface dry and free from excessive rising moisture. Blasting or scarifying removes laitance. Irregularities, damage and cracks can be filled with epoxy mortar or with Sanitile 933 TG. Anchor grooves, at least ¼" wide and ¼" deep, must be cut at 6" perimeter along all walls, edges, pillars, doors, drainage channels, grid drains and penetrative joints. All moving joints must pass through the coating and must be sealed tight. Anchor grooves must be cut on both sides of such joints. Welded joints and cracks in the concrete may be coated, but if movement occurs the coating will also crack. All residues must be removed to provide a dry, dust free open textured surface. The surface profile and levels should be appropriate for the system to be applied. Contact Carboline Tech Service for advice if there are impurities, such as oils etc., in the concrete.

Outline Specification

- Apply Sanitile 933 TC (17 lbs. unit) @100 - 120 sq ft/unit

Mixing

Check that the batch numbers of the colored components are the same for the entire surface. For larger projects or continuation of works, a batch matching service should have been requested at point of order. Remember, never split batches/components. Incorrect mixing ratios or poor mixing can result in irregular hardening or variations in color, etc.

Sanitile 933 TC (4 pack product with pigment pack)

Pour Base A into a suitably sized mixing vessel and add the pigment pack and mix using a slow speed drill and helical spinner for 20 seconds. Add Hardener B. Mix for 30 seconds and then add Reactive Filler #6 while mixing. Ensure that all fillers and resins are scraped into the mix from the sides of the mixing vessel otherwise bubbles/blisters can develop in the applied floor. Continue mixing until a homogenous mixture is obtained (1-2 minutes).

Application

The mixed product can be poured out directly to the floor, spread to the desired thickness with rubber squeegee. Further finishing can be done by lightly rolling the surface. Finishing must be completed as quickly as possible and within 5 minutes after the material has been applied. The roller head must be replaced regularly (approx. every 500 sq ft) to prevent resin curing on the roller. Maximum application width is determined by material and ambient temperature conditions, which affect the working life of the product and determines the speed of installation/man power.

Note that:
Carboline products are often multiple-component systems. Poor mixing, or incorrect mixing procedures, can result in irregular and incomplete hardening, which in turn can result in an inferior final result.

The temperature should be at least 60°F to achieve the best results during application. The temperature of the substrate should be at least 50°F, although a temperature of 60-80°F is recommended. The temperature of the substrate should exceed the "dew point" by more than 5°F during application and hardening.

The product should be stored in such a way that the temperature is the same as the room temperature where the product is to be applied, i.e. between 60-80°F. This improves the mixing, flow, penetration and hardening of the product. Complete hardening takes 5-7 days. This coating should not be applied in thicker coats than specified because the cure (hardening) can be impaired. There are often several types of products at a workplace. Sort the products separately to avoid mistakes. It is important that the material is kept warm, to maintain its fluidity. It is also necessary to warm up the filler component; otherwise it will act as a heat sink and cool down the mixture.

Bear in mind that the surface will NOT be sufficiently hardened the same day as the flooring application to apply coves. Wait a day before applying coves to avoid marks in the floor.

Cleaning of Tools

Cleaned immediately after use with solvent or thinners.

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