

PRODUCT DESCRIPTION

Sanitile 5407 is a 100% solids, moisture tolerant, epoxy flooring. It is a three component system consisting of Part A resin and Part B hardener. A pre-measured aggregate blend component is included with each kit. This product is designed to be applied by trowel from 1/8" to 1/4" or up to 3/8" if needed.

Sanitile 5407 is formulated to provide exceptional performance in areas subject to extreme mechanical abuse. It possesses excellent resistance to impact, heavy loads, thermal stresses, and abrasive environments. With appropriate chemical resistant topcoat, it will resist acids, alkalies and solvent attack.

TYPICAL USES, APPLICATIONS

Sanitile 5407 is suitable for a variety of flooring applications including:

- USDA inspected facilities
- Warehouse Floors
- Operations Areas
- Forklift Traffic Areas
- Chemical Loading/Unloading Areas
- Loading Docks
- Animal Holding Pens
- Laboratories
- Wet Processing Areas

Refer to Carboline Technical Service Department for specific chemical resistant topcoat information.

PACKAGING

5407 is packaged in 1/2 ft³ kits. Each unit consists of:

One premeasured Part A component (3 quarts)

One premeasured Part B component (1 quart)

Two premeasured aggregate blend components ...

Sanitile Troweling Aggregate (30 lbs each – 60 lbs total)

COVERAGE

Each 1/2 ft³ kit covers Approximately 24 ft² per unit at 1/4" thickness.

STORAGE CONDITIONS

Keep 5407 tightly sealed in its original containers until ready for use. Store at 50-75° out of direct sunlight.

Refer to Carboline Technical Service Department for instruction in the preparation of concrete surfaces to accept a Carboline protective coating system.

PHYSICAL / CHEMICAL CHARACTERISTICS

Solids by Volume	100%
Pot Life @ 70°F	45-60 min.*
*significantly less at elevated temperatures	
Shelf Life	24 months @ 70°F
Cure Time @ 70°F (foot traffic)	12 hrs
Flammability	Nonflammable
Color	Brown, Red, Lt. Gray
Hardness	87-90
(ASTM D-2240 Shore D)	
Compressive Strength	12,000 psi
(ASTM C-579)	
Tensile Strength	2,200 psi
(ASTM D-638)	
Flexural Strength	5,000 psi
(ASTM D-790)	
Flexural Modulus of Elasticity	1.7 x 10 ⁶
(ASTM C-722)	
Abrasion Resistance	0.18 g
(ASTM D-1044, CS 17 wheels)	

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual system, including binder and filler, were used as test specimens.

HANDLING CHARACTERISTICS

5407 is applied by trowel as described in the application section of this bulletin. Depending on expected service conditions (i.e.: chemical service, temperature, etc.), application thickness may vary. Consult Carboline Technical Service Department for specific thickness recommendations.

SURFACE PREPARATION

The foundation of any protective coating and lining system is a properly prepared surface. Surface preparation of concrete is essential to the successful application, bonding, and long term performance of the protective coatings. To compromise surface preparation is to compromise the coating and lining system.

Sanitile® 5407

MASKING

Mask adjacent surfaces and equipment that are not to be coated. Carboline coating and lining materials are difficult to remove, once applied.

MIXING & APPLICATION

Equipment Necessary

- Kol mixer or Mortar mixer
- Felt rollers with extension handles to apply primer
- 4" wide paint brushes
- Flat steel trowels
- Clean mixing containers
- Knee pads

Priming

Mix 5407 liquid in a clean mixing container for two minutes and apply to prepared concrete to be topped in a thin even coat using felt rollers. Prime only that area which can be topped while primer coat is still tacky or wet (approximately 3 to 4 hours). If primed area cannot be finished while primer coat is still tacky, the area must be primed again prior to application of the topping.

Mixing

5407 is supplied in premeasured kits. Using a clean mixing container, blend 5407 Part A epoxy resin with 5407 Part B hardener for two minutes. Then slowly add the troweling aggregate to the blended 5407 and mix until all particles are thoroughly wet.

Application

Spread mixed 5407 over tacky primed surface to the desired thickness (typically ¼" over horizontal and 1/8" over vertical).

After spreading material to thickness, dip trowels into Thinner 45 to act as a smoothing liquid and finish with full pressure to compact and seal topping.

Note: Work area should be shaded from direct sunlight to minimize blister formation.

Note: Typically on a large project, the use of a screed box and power troweling is recommended for uniformity and compacting.

Note: When work is interrupted, or at end of the day, edge of work must be squared in straight line and straight up and down from surface to substrate. Do not feather-edge.

CURE TIMES

Sanitile 5407 will be ready for foot traffic in 12 hours and will reach ultimate hardness in 3-5 days.

CLEANUP

Before 5407 gels, it can be cleaned from tools and equipment using hot, soapy water.

After 5407 gels, Thinner 2, xylene, or MEK will be required for cleaning. Chlorinated solvents may be used if flammable solvents are not allowed.

SAFETY PRECAUTIONS FOR INDUSTRIAL USE ONLY!

When using 5407, be aware of these safety precautions:

- Avoid contact with eyes and skin.
- Do not ingest or inhale.
- Always wear chemical goggles, rubber gloves, and appropriate work clothing.
- Make provisions for forced ventilation when working in a confined area.
- Prolonged or repeated exposure to the mixed material or the unreacted Part A and Part B components may cause skin irritation or allergic reaction.
- Refer to material safety data sheets (MSDS) regarding individual components.



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