



SPARTACOTE™ Surface Build Clear

DS-623-0620

**Globally Proven
Construction Solutions**



- USDA compliant (FDA/CFSAN U.S. Food Code 6.101.11 Surface Characteristics)

Suitable Substrates

- Concrete
- Tile
- SPARTACOTE Epoxy Floor Systems

Packaging

- 9810-0005-2 Full Kit: 5 gal (18.9L) kit
- Part A: 3.3 gal (12.5L) in a 5 gal pail
 - Part B: 1.7 gal (6.4L) in a 3.5 gal pail

1. PRODUCT NAME

SPARTACOTE™ Surface Build Clear

2. MANUFACTURER

LATICRETE International, Inc.
 1 LATICRETE Park North
 Bethany, CT 06524-3423 USA
 Telephone: +1.203.393.0010, ext. 1235
 Toll Free: 1.800.243.4788, ext. 1235
 Fax: +1.203.393.1684
 Website: laticrete.com

3. PRODUCT DESCRIPTION

SPARTACOTE Surface Build Clear (formerly SPARTACOTE Surface Build Quartz) is a high performance clear multi-purpose epoxy coating. It offers excellent abrasion and chemical resistance.

Uses

- Commercial/Institutional Kitchens
- Pharmaceutical & Research Facilities
- Laboratories and Clean Rooms
- Water Treatment Plants
- Educational Facilities

Advantages

- Low VOC
- High solids, multi-purpose epoxy
- Clear high gloss finish
- Excellent chemical and abrasion resistance
- Acceptable for use in broadcast systems

Approximate Coverage

WFT	DFT	Coverage
15.0 mils (0.08 mm)	14.7 mils (0.37 mm)	100 ft ² /gal (2.5 m ² /L)
20.0 mils (0.10 mm)	19.6 mils (0.50 mm)	80 ft ² /gal (2.0 m ² /L)

WFT = Wet Film Thickness
 DFT = Dry Film Thickness

Coverage values are approximate and will vary based on surface condition, preparation methods and application technique.

Approximate Coverage (Troweled Mortar)

Thickness	Coverage
3/16"-1/4" (4.8-6.4 mm)	60-65 ft ² /gal (1.5-1.6 m ² /L)

Coverage values are approximate and will vary based on surface condition, preparation methods and application technique.

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years.

Limitations

- Substrate temperature must be between 50°F (10°C) and 90°F (32°C)

- Ambient relative humidity must not exceed 90%
- Substrate temperature must be 5°F (3°C) above dew point
- Product is not UV Stable and intended for interior applications only

Cautions

- FOR PROFESSIONAL USE ONLY
- Thoroughly read all technical data sheets, application guidelines, warranty disclaimers and Safety Data Sheets (SDS) prior to use. Application guides are available at www.laticrete.com.
- Wear protective gloves, protective clothing and eye protection.
- Causes severe skin burns. If skin irritation or rash occurs: get medical advice/attention
- Causes serious eye damage. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Call a physician immediately.
- Harmful if swallowed. Rinse mouth do not induce vomiting. Call a physician immediately.
- Keep out of reach of children.

4. TECHNICAL DATA

VOC/LEED Product Information

6 g/L (as intended for use)

Physical Properties

Property	Test Method	Result
Adhesion	ASTM D7234	>300 psi (>2.1 MPa) Substrate Failure
Tensile Strength	ASTM C638	900-1000 psi (6.2-6.9 MPa)
Abrasion Strength	ASTM D4060	23 mg weight loss (1000 cycles C17 Wheel)

Working Properties

Property	Temperature	Value
Mix Ratio	---	Pre-measured units
Working Time	50°F (10°C)	200-220 minutes
	75°F (24°C)	100-110 minutes
	90°F (32°C)	50-65 minutes
Minimum Re-Coat Time	50°F (10°C)	12-14 hours
	75°F (24°C)	6-8 hours
	90°F (32°C)	5-6 hours
Maximum Re-Coat Time	50°F (10°C)	72 hours
	75°F (24°C)	24 hours
	90°F (32°C)	20 hours
Foot Traffic / Vehicular Traffic	---	24 hours min.
Full Cure	---	7 Days

Working properties based on stated temperature and 50% RH. Changes in ambient conditions may cause times to vary.

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

5. INSTALLATION

SPARTACOTE Surface Build Clear is not UV stable. When used as a base resin ensure that an appropriate system build and topcoat is utilized to meet application requirements. Consult a LATICRETE Technical Service Representative for best options.

It is recommended to prime all surfaces to be coated prior to application of SPARTACOTE Surface Build Clear. The use of a primer will increase adhesion to the substrate and reduce the occurrence of fisheyes, blistering, pinholes & outgassing. Ensure that proper re-coat windows are observed. See applicable primer technical data sheet for surface preparation requirements.

Compatible SPARTACOTE Primers:

- SPARTACOTE General Primer (DS 622.6)
- SPARTACOTE Oil Tolerant Primer (DS 622.9)
- SPARTACOTE WB Epoxy Primer (DS 085.8)
- LATICRETE® VAPOR BAN™ ER (DS 35216.0)
- SPARTACOTE Moisture Vapor Barrier (DS 087.5)

Surface Preparation - Concrete

Surfaces to be coated must be free of grease and any other contaminants that may impede adhesion. Always check the surface for any bond inhibitors prior to application. Any repairs must be addressed prior to application and should be repaired in accordance with

ICRI standards.

Concrete must be mechanically profiled to an ICRI CSP-3 to 5. Ensure that all surface laitance is removed prior to coating. The prepared surface should have a tensile pull-off strength of 200 psi (1.4 MPa) or greater when tested in accordance with ASTM C1583. If wet grinding, surface must be allowed to completely dry prior to coating.

Concrete must be tested for relative humidity (RH) prior to installation of any coatings. The RH of the slab must not exceed 75% as tested per ASTM F2170. If RH measures 75% or greater, use LATICRETE VAPOR BAN ER or SPARTACOTE Moisture Vapor Barrier.

Substrate defects (voids, bugholes, divots, etc.) should be filled smooth with surrounding substrate surface with SPARTACOTE Epoxy Fill Coat (see technical data sheet DS 623.3 for application instructions) prior to the application of SPARTACOTE Surface Build Clear.

Surface Preparation - Over existing tile

Refer to TDS 450: Installation Guideline for Installing SPARTACOTE over Existing Tiled Surfaces

Mixing

SPARTACOTE Surface Build Clear is provided in pre-measured units and when mixed will yield 5 gal (18.9 L) of material.

Prior to mixing, mechanically mix Part A separately for 1-2 minutes to disperse any fillers which may have settled. Mix pre-measured unit of Part A with pre-measured unit of Part B for 2-3 minutes. Pour mix directly onto the primed concrete.

Application

SPARTACOTE Surface Build Clear may be applied by notched squeegee or SPARTACOTE Resin Broom. Suggested application thickness is 15 mils (0.4 mm) but can be applied up to a maximum of 20 mils (0.5 mm) in a single coat. Spread evenly over all primed surfaces and immediately backroll with a spiked roller to deaerate and help level.

For broadcast systems, immediately following the backroll and while the material is still wet broadcast media with either a mechanical sprayer or by hand in a "rainfall pattern" into the wet resin to refusal or rejection.

For improved UV stability, abrasion, stain resistance, and chemical resistance a top coat is recommended. Consult a LATICRETE Technical Service Representative for best options.

To optimize inter-coat adhesion, appropriate recoat times must be observed. Exposure of the coating to direct sunlight will considerably shorten the recoat times. If recommended recoat times are exceeded, consult a

LATICRETE Technical Service Representative; sanding or abrasive blasting may be required.

With all epoxies after priming and before each additional coat, examine the surface for amine blush (oily film). If present, remove by cleaning the surface with acetone.

Mixing (Troweled Mortar)

SPARTACOTE Surface Build Clear may be mixed with aggregate to create a troweled mortar. Combine 84 fl.oz. Part A with 44 fl.oz. Part B and 60 lbs of SPARTACOTE Blended Quartz.

IMPORTANT: Priming of the substrate is required prior to applying epoxy mortar to the ensure substrate adhesion.

For mixing troweled mortar, it is recommended to use a concrete mixer. Begin by combining 84 fl.oz. Part A with 44 fl.oz Part B and mixing until a uniform color and consistency is achieved. Slowly add quartz aggregate, mixing continuously until all material is wetted and a uniform consistency mortar is achieved.

Apply mixed mortar directly onto the primed concrete.

Application (Troweled Mortar)

SPARTACOTE Surface Build Clear troweled mortar should be spread evenly over the floor with a gauge rake or trowel to desired thickness. Suggested application thickness is 3/16" - 1/4" (4.8-6.4 mm). Finish with a power trowel (plastic blade for protection) or finishing trowel.

Coverage rates will vary depending on surface profile application thickness and degree of compaction during troweling.

For improved UV stability, abrasion, stain resistance, and chemical resistance a top coat is recommended. Consult a LATICRETE Technical Service Representative for best options.

To optimize inter-coat adhesion, appropriate re-coat times must be observed. Exposure of the coating to direct sunlight will considerably shorten the re-coat times. If recommended recoat times are exceeded, consult a LATICRETE Technical Service Representative; sanding or abrasive blasting may be required.

With all epoxies after priming and before each additional coat, examine the surface for amine blush (oily film). If present, remove by cleaning the surface with acetone.

Notes

Mock-ups and field test areas are required in order to validate performance and appearance related characteristics (including but not limited to color, inherent surface variations, wear, anti dusting, abrasion resistance, chemical resistance, stain resistance,

coefficient of friction, etc.) to ensure system performance as specified for the intended use, and to determine approval of the coating system.

Variability in job site conditions (including but not limited to surface preparation, sunlight, humidity, dew point, temperature, etc.) during application of SPARTACOTE products may lead to fisheyes, blistering, pinholes, wrinkling, or outgassing of air in the concrete and are not product defects. Double priming, shading or evening application may be required.

Cleaning

Use acetone or xylene to clean tools and equipment.

6. AVAILABILITY AND COST

Availability

LATICRETE materials are available worldwide.

For Distributor Information, Call:

Toll Free: 1.800.243.4788

Telephone: +1.203.393.0010

For on-line distributor information, visit LATICRETE at laticrete.com

Cost

Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM:

- DS 230.13: 1 Year Product Warranty

8. MAINTENANCE

The long term performance, appearance, and life expectancy of wear surface products are critically dependent upon a good routine maintenance program designed specifically for the installed wear surface. SPARTACOTE™ floor coating systems are nonporous, causing dirt and contaminants to remain on the surface. The use of properly placed walk-off mats, inside and outside, will help increase the life of the floor. Recommend maintenance program consist on frequent and through cleaning utilizing a neutral pH cleaner. Frequency of washing will vary depending on floor usage type, traffic and age. Please Refer to TDS 420 "SPARTACOTE Floor Maintenance Guide" available at www.laticrete.com for more information.

9. TECHNICAL SERVICES

Technical Assistance

Information is available by calling the LATICRETE Technical Service Hotline:

Toll Free: 1.800.243.4788, ext. 1235

Telephone: +1.203.393.0010, ext. 1235

Fax: +1.203.393.1948

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at laticrete.com.

10. FILING SYSTEM

Additional product information is available on our website at laticrete.com. The following is a list of related documents:

- DS 230.13: LATICRETE Product Warranty
- DS 623.3: SPARTACOTE Epoxy Fill Coat
- DS 622.6: SPARTACOTE General Primer
- DS 622.9: SPARTACOTE Oil Tolerant Primer
- TDS 420: SPARTACOTE Floor Maintenance Guide
- DS 085.8: SPARTACOTE WB Epoxy Primer
- DS 35216.0 LATICRETE VAPOR BARRIER
- DS 087.5: SPARTACOTE Moisture Vapor Barrier
- DS 087.2: SPARTACOTE Blended Quartz

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