



# SPARTACOTE™ Surface Build Flake

DS-623.1-0119

**Globally Proven  
Construction Solutions**



- Broadcast system allows for ease of application

## Suitable Substrates

- Concrete

## Packaging

- 9811-0005-2 Full Kit: 5 gal (18.9L) Kit
- Part A: 2.7 gal (10.2L) in a 5 gal (18.9L) pail
- Part B: 1.7 gal (6.4L) in a 3.5 gal (13.2L) pail
- Surface Build Pigment: 0.6 gal (2.3L) pail - Sold Separately

## Approximate Coverage

10-12 mils (0.25-0.3 mm)	120-160 ft <sup>2</sup> /gal (2.9-3.9 m <sup>2</sup> /L)
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## 1. PRODUCT NAME

SPARTACOTE™ Surface Build Flake

## 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](http://laticrete.com)

## 3. PRODUCT DESCRIPTION

SPARTACOTE Surface Build Flake is an epoxy coating designed for the broadcast of SPARTACOTE Blended Chip to create tough, durable, terrazzo-like seamless flooring finish. It must be pigmented with SPARTACOTE Surface Build Pigments.

Available SPARTACOTE Surface Build Pigment colors: Light Grey, Medium Grey, Black and Sand Beige

### Uses

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

### Advantages

- Low VOC, low odor
- Tough, durable and seamless floor
- Chemical and abrasion resistance
- Provides unique multi-colored patterns

## Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for one (1) year if stored off the ground in a dry area.

## 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](http://www.laticrete.com).
- Wear protective gloves, protective clothing and eye protection.
- May cause an allergic skin reaction. 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.
- 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

15 g/L

## Physical Properties

Test	Test Method	Results
Compressive Strength	ASTM C579	7,900-10,000 psi (54-68 MPa)
Tensile Strength	ASTM C307	1,500-1,600 psi (9.5-11 MPa)
Flexural Strength	ASTM C580	2,100-2,400 psi (14-17 MPa)
Tabor Abrasion	ASTM D4060	60 mg.
Tensile Bond Strength	ASTM C7234	Cohesive Failure of Concrete
Fungus Resistance	U.S. Mil Std, 810E	No Growth

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

### Surface Preparation

Surfaces to be coated must be primed prior to application of SPARTACOTE Surface Build Flake. 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)
- SPARTACOTE Moisture Vapor Barrier (DS 087.5)

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 Flake.

### Mixing

SPARTACOTE Surface Build Flake is designed to be used with SPARTACOTE Surface Build Pigments and is provided in pre-measured units. A full kit when mixed will yield 5 gal (18.9 L) of material.

Add full unit 0.6 gal (2.3L) of SPARTACOTE Surface Build Pigments to Part A and mechanically mix separately for 1-2 minutes to fully disperse pigments. Mix pre-measured unit of pigmented Part A with premeasured unit of Part B for 2-3 minutes until a uniform color and consistency is achieved. Pour mix directly onto the primed concrete.

### Application

SPARTACOTE Surface Build Flake may be applied by notched squeegee or SPARTACOTE resin broom. Suggested application thickness is 10-12 mils (0.25 - 0.3 mm) but can be applied up to a maximum thickness of 40 mils (1.0 mm). Spread evenly over all primed surfaces and backroll with a short nap or spiked roller to deaerate and help level. Immediately following the backroll and while the material is still wet broadcast flakes with either a mechanical sprayer or by hand in a "rainfall pattern" into the wet resin to refusal

or rejection. See SPARTACOTE Blended Chip data sheet DS086.3 for approximate coverage rates.

Once the broadcast coat has cured, begin removing excess media chip. With an electric leaf blower proceed to blow all the excess/non-adhered chip into piles or towards a corner. Carefully clean up the excess chip and re-box it as it can be used again on future projects. Using a 12-14" (30.5 -35.6 cm) metal floor scraper proceed to scrape the surface in 3 opposing direction (north/south, east/west, diagonal) ensuring the entire floor receives a uniform scrape. This procedure is critical to a quality finished floor. A poor scrape will result in an uneven finished texture and excess material usage on the top coat. Clean all the chip debris by blowing it into piles with the leaf blower. Clean up the debris and dispose of it in the trash (The scraped chip cannot be re-used on the next job). Blow the floor a second time to ensure all remaining chip debris is off the floor and surface is clean and ready for the top coat.

A grout/top coat is required and will provide improved UV stability, abrasion, stain resistance, and chemical resistance. 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.

### 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.

### Cure Cycle

Temperature	Working Time	Cure Time	Max. Re-Coat Time
50°F (10°C)	50-60 Minutes	72 Hours	120 Hours
75°F (24°C)	30-40 Minutes	24 Hours	72 Hours
90°F (32°C)	20-30 Minutes	20 Hours	20 Hours

## 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](http://laticrete.com)

### Cost

Contact a LATICRETE Distributor in your area.

## 7. WARRANTY

See 10. FILING SYSTEM:

- LATICRETE 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 of frequent and thorough cleaning utilizing a neutral pH). The 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](http://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](http://laticrete.com).

## 10. FILING SYSTEM

Additional product information is available on our website at

[laticrete.com](http://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
- DS: 085.8: SPARTACOTE WB Epoxy Primer
- TDS 420: SPARTACOTE Floor Maintenance Guide
- DS 623.4: SPARTACOTE Surface Build Pigments
- DS: 087.5: SPARTACOTE Moisture Vapor Barrier
- DS:086.3: SPARTACOTE Blended Chip

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