



# SPARTACOTE® FLEX XPL Clinical Plus

DS-35249-0324

**Globally Proven  
Construction Solutions**



## 1. PRODUCT NAME

SPARTACOTE® FLEX XPL Clinical Plus

## 2. MANUFACTURER

LATICRETE International, Inc.

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Bethany, CT 06524-3423 USA

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Website: [laticrete.com](http://laticrete.com)

## 3. PRODUCT DESCRIPTION

SPARTACOTE FLEX XPL Clinical Plus is a low VOC, minimal odor, fast-curing two-part polyaspartic equipped with silver ion antimicrobial technology\* which remains active for the lifetime of the floor coating, even when damaged or worn. Its engineered to retain a low viscosity for longer periods of time, allowing for extended working times and better flow. Designed as a coating for use in hospitals, veterinary clinics, and pharmaceutical facilities, it can be used either as a clear sealer or a topcoat in seamless multi-build systems including SPARTACOTE Guard, SPARTACOTE Chip SPARTACOTE Quartz and SPARTACOTE Metallic systems.

SPARTACOTE FLEX XPL Clinical Plus is UV stable and is suitable for both interior and exterior applications. It may be tinted with SPARTACOTE Universal Pigments.

Available colors include: Black, Dark Blue, Tile Red, Light Grey, Medium Grey, Dark Grey, White, Light Beige, Sand Beige, Dark Beige, Light Brown, Safety Yellow and Safety Red. Not recommended for use with Dark Grey pigment.

Custom colors are available upon request.

\*Antimicrobial technology protects the treated article against mold and mildew deterioration. Antimicrobial technology is not designed to replace normal cleaning practices or protect users.

## Uses

- Healthcare facilities
- Schools and educational facilities
- Food & beverage processing
- Commercial & institutional kitchens
- Bathrooms and locker rooms
- Veterinary facilities and dog kennels

## Advantages

- Silver ion antimicrobial technology which inhibits the growth of bacteria that can cause product degradation, discoloration and odors.
- Walk-on in hours; 24-hour return to service
- Low VOC
- UV Stable; retains optical clarity of clear sealer/finish
- Extended working time
- Good chemical and abrasion resistance
- SPARTACOTE GRIP Traction Additive or SPARTACOTE DIAMOND TOPP can be introduced as traction additives
- USDA compliant (FDA/CFR 21 U.S. Food Code 6.101.11 Surface Characteristics)

## Suitable Substrates

- Concrete
- Steel
- Tile
- SPARTACOTE Polyaspartic Floor Systems
- SPARTACOTE Epoxy Floor Systems
- SPARTACOTE Urethane Cement Systems

## Packaging

SPARTACOTE FLEX XPL Clinical Plus is mixed at 1A:1B by volume

3 gal mix

- Part A: 9389-0002-2  
2 gal (7.6L) in a 3.5 gal (13.2L) pails
- Part B: 9143-0001-2  
1 gal (3.8L) in a 1 gal (3.8L) can

Note: Mixes with standard SPARTACOTE FLEX XPL

part B.

15 gal mix

- Part A: 9391-0005-2  
5 gal (18.9L) in a 5 gal (18.9L) pail
- Part B: 9149-0005-2  
5 gal (18.9L) in a (18.9L) pail  
Note: 2x part B required per mix.  
Note: Mixes with standard SPARTACOTE FLEX XPL part B.

#### Approximate Coverage

| WFT                    | DFT                   | Coverage  |
|------------------------|-----------------------|---|
| 6.0 mils<br>(0.15 mm)  | 5.8 mils<br>(0.15 mm) | 267 ft <sup>2</sup> /gal<br>(6.6 m <sup>2</sup> /L) |
| 7.0 mils<br>(0.18 mm)  | 6.8 mils<br>(0.17 mm) | 229 ft <sup>2</sup> /gal<br>(5.6 m <sup>2</sup> /L) |
| 8.0 mils<br>(0.20 mm)  | 7.8 mils<br>(0.20 mm) | 201 ft <sup>2</sup> /gal<br>(4.9 m <sup>2</sup> /L) |
| 9.0 mils<br>(0.23 mm)  | 8.7 mils<br>(0.22 mm) | 178 ft <sup>2</sup> /gal<br>(4.4 m <sup>2</sup> /L) |
| 10.0 mils<br>(0.25 mm) | 9.7 mils<br>(0.25 mm) | 160 ft <sup>2</sup> /gal<br>(3.9 m <sup>2</sup> /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.

When using as a topcoat over chip or quartz broadcasts adjust estimates to account for additional required material.

#### Shelf Life

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

#### Limitations

- Maximum application thickness in a single application is 10 mils (0.25mm) WFT. Applying beyond the maximum thickness may result in clouding or milky areas.
- Not intended for areas that experience significant thermal shock on a continual basis.
- Please note that with all resinous coating systems, exterior full sun environments in warm climates may exhibit above average surface temperatures. This is especially true with darker finishes.

#### 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

depending on the system employed are available at [www.laticrete.com](http://www.laticrete.com).

- Wear protective gloves, protective clothing and eye protection.
- Harmful if inhaled. Avoid breathing vapors, mist or spray.
- Causes skin irritation. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.
- Causes serious eye irritation. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- May be fatal if swallowed and enters airways. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting.
- Keep out of reach of children.

#### 4. TECHNICAL DATA

##### VOC/LEED Product Information

<100 g/L (as intended for use)

#### Physical Properties

| Property            | Test Method               | Result                                      |
|---------------------|---------------------------|---|
| Adhesion            | ASTM D7234                | >300 psi<br>(>2.1 MPa)<br>Substrate Failure |
| Tensile Strength    | ASTM D2370                | 2575 psi<br>(17.8 MPa)                      |
| Impact Resistance   | ASTM D5420                | 68 in-lb<br>(7.7 n-m)                       |
| Abrasion Resistance | ASTM D4060<br>1000 cycles | 41 mg/cycle                                 |

#### Working Properties

| Property                         | Value                            |
|----------------------------------|----------------------------------|
| Mix Ratio                        | 2 Part A : 1 Part B<br>by volume |
| % Solids                         | 97% by weight                    |
| Working Time                     | 20 - 25 minutes                  |
| Minimum Re-Coat Time             | 2 hours                          |
| Maximum Re-Coat Time             | 24 hours                         |
| Foot Traffic / Vehicular Traffic | 3-4 hours / 24 hours             |

- Working properties based on 70°F & 50% RH. Changes in ambient conditions may cause times to vary.
- Increases in temperature and/or humidity will shorten working time, dry time and recoat windows.

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 - 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. Do not use Alcohol to clean prior to application.

Concrete must be mechanically profiled to an ICRI CSP-2. 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, allow surface to fully dry prior to coating.

As an alternative to mechanical surface prep, SPARTACOTE PRIME-N-GO™ may be used as a primer. See data sheet 36651 for detailed instructions and uses.

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 BARRIER or SPARTACOTE Moisture Vapor Barrier.

### Surface Preparation - Over existing tile

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

### Surface Preparation - Metal/Steel

Clean the surface per SSPC-SP1. Surfaces to be coated must be free of grease, oils, cutting fluids and any other contaminants that may impede adhesion. Always check the surface for any bond inhibitors prior to application.

For Steel: Shot blast the surface per SSPC-SP 6/NACE 3

For Stainless/Galvanized: Shot blast the surface per SSPC-SP16.

After shot blasting, perform a second solvent wipe of the surface to remove any residual dust or debris. Immediately coat the surface.

### Tinting with SPARTACOTE Universal Pigments

Best practice is to mix in gallon increments. Measure out appropriate amounts of parts A and B, observing 2A:1B vol. mix ratio, prior to adding SPARTACOTE Universal Pigments.

Required loading for SPARTACOTE Universal Pigments is (1) small unit per gallon of mixed resin (A+B) or (1) large unit per 5 gallons of mixed resin. 3 gal mix will require (3) small units. 15 gallon mix will require (15) small or (3) large units. White, Safety Yellow and Safety Red require doubling the loading level.

Once parts A and B are measured, add full contents of SPARTACOTE Universal Pigment unit(s) directly into Part A at the loading rate stated above. Scrape sides and ensure all pigment is removed from the jar. Mix pigment into Part A with a slow speed drill mixer to fully disperse the pigments until a uniform color and consistency is achieved, approximately 2 minutes. Failure to properly mix pigments may lead to an inconsistent finish and reduced product performance.

Add part B to tinted part A and continue with mixing instructions below.

### Mixing

Prior to mixing Part A and Part B, individually stir Part A for 2 minutes. Combine 2 Parts A to 1 Part B (2:1) by volume in a clean, dry working vessel. Mix using a slow speed drill mixer for 2 minutes. Avoid overmixing or creating a vortex that could introduce air. Do not mix below the dew point, which will shorten the pot life. No induction time is required prior to use.

If a traction additive (e.g. SPARTACOTE GRIP Traction Additive) is to be incorporated, it is to be added after thoroughly mixing Part A and Part B.

NOTE: Only mix as much product as can be applied within the stated working time.

### Application

SPARTACOTE FLEX XPL Clinical Plus may be applied by brush, roller, resin broom or squeegee. Suggested application thickness is 8 mils (0.20 mm) or 201 ft<sup>2</sup>/gal (4.9 m<sup>2</sup>/L). Spread evenly over all prepared surfaces to desired thickness. Immediately following, while the coating is still wet, use a SPARTACOTE Roller Skin or other high quality 3/8" (9 mm) nap non-shedding roller to back-roll at 90 degrees from the original application direction to help ensure full coverage and uniform thickness. Use a brush or small roller around penetrations, columns, and any other obstructions. Periodically check mil thickness using a wet film thickness gauge. Do not allow the product to puddle or pool. Contact LATICRETE directly for specifics on effective application techniques.

The material will be dry to the touch 2 to 3 hours after application, dependent on ambient temperature, slab temperature and humidity. Product may be re-coated within 2 to 24 hours following application. Light foot traffic is acceptable 3 to 4 hours following application and vehicular traffic is acceptable 24 hours after application.

If using as a topcoat over epoxy, it is critical that the epoxy not be let down with alcohol during installation or cleaned with alcohol prior to application. Always apply over epoxy within the manufacturer's recommended re-coat time.

### Notes

Maintaining a consistent storage temperature 24 hours prior to and up to time of application will maximize working time. Material should be conditioned in a cool, dry environment prior to application.

Mock-ups and field test areas are required in order to validate performance and appearance relate 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. Additional coats, shading or evening application may be required.

### **Storage**

Store in a clean, dry environment out of direct sunlight between 40°F - 100°F (5°C - 38°C). Once opened, product will react with moisture in the environment and begin to catalyze.

### **Cleaning**

Use acetone or xylene to clean tools and equipment. Do not use Alcohol.

## **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:

- 1 Year Product Warranty (US - English)

## **8. MAINTENANCE**

The long term performance, appearance, and life expectancy of wear surface products are critically dependence upon a good routine maintenance program designed specifically for the installed wear surface.

SPARTACOTE polyaspartic and epoxy 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 cleaner. The frequency of washing will vary depending on floor usage type, traffic and age.

## **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
- TDS 420: SPARTACOTE Floor Maintenance Guide
- TDS 450 Installation Guideline for Installing SPARTACOTE™ over Existing Tiled Surfaces
- DS 36651: SPARTACOTE PRIME-N-GO
- DS 35216: VAPOR BAN ER
- DS 36647: VAPOR BAN E
- DS 36641: SPARTACOTE Universal Pigments

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