



SPARTACOTE™ FLEX XPL

DS-32830.0-0319

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

SPARTACOTE™ FLEX XPL

2. MANUFACTURER

LATICRETE International, Inc.
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3. PRODUCT DESCRIPTION

SPARTACOTE FLEX XPL is a high solids, low VOC and minimal odor polyaspartic coating for both decorative and protective applications. SPARTACOTE FLEX XPL has been engineered to retain a low viscosity for longer periods of time, allowing for extended working times and better flow. It can be applied in single or multiple coats by brush, roller, squeegee or SPARTACOTE Resin Broom. Suitable for a variety of substrates including concrete, metal/steel and epoxy it can be utilized within seamless multi-build resinous flooring systems including SPARTACOTE Guard, Chip, Quartz and Metallic.

SPARTACOTE FLEX XPL provides optimal impact, abrasion, and chemical resistance characteristics. Suitable for high traffic applications. The material is ideal for use as a primer, mid coat, or clear top coat sealer within resinous flooring applications requiring minimal installation odor. Its UV stable nature makes it suitable for both interior and exterior applications. Available in either clear or pigment base units which can be tinted with SPARTACOTE Polyaspartic Pigments.

Available colors include: Black, Dark Blue, Tile Red, Bright Green, Light Grey, Medium 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.

Uses

- Interior and exterior applications
- High traffic areas
- Industrial and commercial flooring
- Residential garage flooring

Advantages

- Walk-on in 4 hours
- Low VOC
- UV Stable; retains optical clarity of clear sealer/finish
- 24-hour return to service
- 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/CFSAN U.S. Food Code 6.101.11 Surface Characteristics)

Suitable Substrates

- Concrete
- Metal
- Epoxy Coating

Packaging

- 9141-0002-2 Part A Clear: 2 gal (7.6 L) in a 3.5 gal (13.2 L) pail
- 9142-0175-2 Part A Pigment Base: 1.75 gal (6.6 L) in a 3.5 gal (13.2 L) pail
- 9143-0001-2 Part B: 1 gal (3.8 L) in a 1 gal (3.8 L) can
- 9144-0005-2 Part A Clear: 5 gal (18.9 L) in a 5 gal (18.9 L) pail
- 9148-0375-2 Part A Pigment Base: 3.75 gal (14.2 L) in a 5 gal (18.9 L) pail
- 9149-0005-2 Part B: 5 gal (18.9 L) in a 5 gal (18.9 L) pail

Approximate Coverage

Dry Film Thickness: Mils (mm)	Ft ² /Gal (m ² /L)
6 (0.15)	240 (5.9)
7 (0.18)	205 (5.0)
8 (0.20)	180 (4.4)
9 (0.23)	160 (3.9)
10 (0.25)	140 (3.4)

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for eighteen (18) months. Store between 40°F to 75°F (4° to 24°C). Material should be kept in a cool, dry location prior to application.

Limitations

- Not intended for use over countertops
- Not intended for areas experiencing 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. As a result, resinous systems may not be ideally suited for exterior pool deck applications.

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.
- 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

30 g/L (as intended for use)

Physical Properties

Test	Test Method	Results
Tensile Strength	ASTM 2370	2575 psi (17.8 MPa)
Tensile Strength	ASTM D638	1820 psi (12.5 MPa)
Impact Resistance	ASTM D5420	68 in-lb (7.7 N-m)
Taber Abrasion	ASTM D4060	41 mg/cycle

Working Properties

Property Name	Property Value
Mix Ratio	2 Part A : 1 Part B by volume
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

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.

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 SPARTACOTE Moisture Vapor Barrier.

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.

Mixing Pigmented Coatings

Add full contents of SPARTACOTE Polyaspartic Pigment pack directly into short filled Part A Pigment Base. Mix pigment into Part A with a slow speed drill mixer for 2 minutes to fully disperse the polyaspartic pigments. Failure to properly mix pigments may lead to an inconsistent finish and reduced product performance.

Mixing Part A with Part B

Mix 2 Parts A and 1 Part B (2:1) by volume using a clean, dry working vessel. Use a paddle mixer on slow speed 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: Once mixing is complete, use within the pot life window. Leaving mixed material in the bucket will generate excessive heat.

Application

SPARTACOTE FLEX XPL may be applied by brush, roller, resin broom or squeegee. Suggested application thickness is 8 mils (0.20 mm) or 180 ft²/gal (4.4 m²/L). Maximum application mil thickness in a single application is 10 mils (0.25 mm). 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° 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 top coat 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

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.

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:

- 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 resinous floor coating systems are non-porous, 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.

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
- TDS 420: SPARTACOTE Floor Maintenance Guide
- TDS 087.5: SPARTACOTE Moisture Vapor Barrier

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