



SPARTACOTE™ Urethane Cement

DS-014.4-0917

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

SPARTACOTE™ Urethane Cement

Product Components:

SPARTACOTE Urethane Cement ATS is a 4-part system consisting of a part A and part B liquid, part C filler and pigment pack.

2. MANUFACTURER

LATICRETE International, Inc.

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Bethany, CT 06524-3423 USA

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Toll Free: 1.800.243.4788, ext. 235

Fax: +1.203.393.1684

Website: www.laticrete.com

3. PRODUCT DESCRIPTION

SPARTACOTE Urethane Cement ATS is a seamless flooring system typically installed at 1/8" – 1/4" (3-6 mm) in thickness depending on the application. It consists of a Part A and Part B liquid as well as a part C filler and additional pigment pack. The system is intended for heavy duty environments and designed to withstand thermal shock, impact, abrasion and chemical exposure.

Uses

- Wet Processing Environments
- Food & Beverage Packaging
- Commercial Kitchens
- Chemical Process Facilities
- Pharmaceutical Manufacturing Facilities

Advantages

- Seamless finish
- Impact and abrasion resistant
- Resistant to fungi per ASTM G-21

Suitable Substrates

- Concrete

Packaging

Urethane Cement Part A 1-Gal/3.8L: 9250-0001-1

Urethane Cement Part B 1-Gal / 3.8L: 9252-0001-1

Urethane Cement Part C Filler 56 lb. / 25.40 kg: 9254-0001-1

Urethane Cement Pigment 1 lb. /0.45 kg: SKU based on Color

Urethane Cement Cove Base Filler 25 lb.bag (11.70 kg): 9249-0028-1

Colors: Green, Medium Grey, Dark Grey, Red, Tan, Black

Approximate Coverage

- 42 – 64 ft² (3.9 – 5.9 m²) per complete kit

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality if stored off the ground in a dry area.

- Part A and Part B Liquids: 6 Months
- For cementitious powders packing in paper bags: 6 Months

Limitations

- Confirm product performance in specific chemical environment prior to use
- Properly prepare substrate according to specific guidelines within this document
- SPARTACOTE Urethane Cement ATS is not color stable unless UV resistant top-coat is used
- Do not install on wet concrete
- Floors should be properly sloped to drain to prevent standing water
- Spills should be removed as soon as possible to prevent potential hazards
- Application Temperature: See technical data section below
- Professional use only

Cautions

Consult SDS for more safety information.

- Causes skin irritation
- May cause an allergic skin reaction
- Causes serious eye irritation
- Harmful if inhaled
- May cause allergy or asthma symptoms or breathing difficulties if inhaled
- May cause respiratory irritation
- Suspected of causing cancer
- May cause damage to organs through prolonged or repeated exposure
- Keep out of reach of children.

4. TECHNICAL DATA

Applicable Standard

ASTM C579, ASTM C307, ASTM C580, ASTM C4541, ASTM C4226, ASTM G21

Physical Properties

Typical Properties at 70°F

| | |
|--|--------------------------------------|
| Compressive Strength (ASTM C579) | 8,900 psi (61.36 MPa) |
| Tensile Strength (ASTM C307) | 900 psi (6.2 MPa) |
| Flexural Strength (ASTM C580) | 2,000 psi (13.8 MPa) |
| Impact Strength, in/lbs. (ASTM D 4226) | ≥140 in-lb.f (1613 gram-force meter) |

Specifications are subject to change without notification. Technical data shown in SPARTACOTE™ product data sheets and technical data sheets are typical but reflect laboratory test procedures conducted in laboratory conditions. Actual field performance and test results will depend on installation methods and site conditions. Field test results will vary due to critical job site factors.

Working Properties

| | |
|-----------------------------------|-------------------------------|
| Application Temperature, ambient | 40-85°F (4-29°C) |
| Application Temperature, material | 50-80°F (10-27°C) |
| Shelf Life | 6 months |
| Pot Life at 77°F (25°C) | 20 minutes |
| Traffic at 77°F (25°C) | Light: 12 hours/Full:24 hours |
| Fully Cured at 77°F (25°C) | 7 days |

5. INSTALLATION

Surface Preparation

Apply only to properly prepared clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants.

- SPARTACOTE Urethane Cement ATS can be installed after 7 days or when concrete reaches a minimum 3,500 psi (24.1 MPa) compressive strength which will allow for proper surface preparation. However, early curing movement, shrinkage or cracking that may occur in the concrete will be reflected through the final SPARTACOTE Urethane Cement ATS flooring.
- Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed.
- Remove any laitance or weak surface layers including broom finish surface.
- Prepare surface by mechanical profile to achieve an ICRI CSP 4 to 5.
- All concrete surface irregularities, cracks, expansion joints, control joints and terminations should be properly addressed and prepared prior to application of the flooring. Moving joints and cracks will reflect through the final installed SPARTACOTE Urethane Cement ATS flooring.

Mixing

1. It is very important to utilize a proper mixer and paddle to ensure a complete mix and to reduce the risk of introducing excessive air into the mixture. LATICRETE® recommends a MAN-U-FAB M-61 (1 HP) mixer with a 10-gallon (38L) pail and TR4-10 mixing arm. (www.mixall.com). An electric jiffy mixer may also be used with a 6 gallon (22.7 L) or larger bucket.
2. With the mixer running, pour 1 gallon (3.7L) Part A into the pail.

3. Add 1 Powder Pigment package to Part A and mix about 15 seconds.
4. Add 1 gallon (3.7 L) Part B to create a 1:1 ratio of A and B. Mix another 15 seconds until the powder pigment is evenly dispersed.
5. Gradually add all contents of a Spartacote Urethane Cement Part C Filler into the liquid mixture and blend thoroughly until all particles are wetted out, normally about two minutes.
6. Immediately after mixing (within 3 minutes), spread the mixed Spartacote™ Urethane Cement Filler onto the floor at the desired thickness.

Application Options:

1/8" – 1/4" (3-6 mm) slurry applied, broadcasted and top-coated
3/16" (4.8 mm) slurry applied smooth un-broadcasted

Application

IMPORTANT – Follow all safety instructions listed on the product Safety Data Sheets (SDS) copies available upon request. The following materials should only be installed by trained persons experienced in polyurethane concrete flooring applications.

1. To prevent lifting or delamination, keyways (minimum 5/16" wide x 5/16" deep) (7.9 x7.9 mm) must be cut at all terminations, joints, columns, doorways, and drains.
2. Clean sand and dust from prepared concrete where the floor is to be installed.
3. Use a cam rake or trowel for application.
4. Lay abutting edges within 10 minutes to ensure a clean edge. A "wet edge" installation is imperative during large placements to avoid lines and ridges in the finished floor.
5. Evenly apply to desired thickness while trying to keep cam rake lines to a minimum. Backroll across slurry with spike roller to help settle aggregates and blend cam rake lines. Further roll with loop/texture roller perpendicular to cam rake lines over entire floor to even and settle slurry prior to broadcasting.
6. For a broadcast system, broadcast to rejection specified broadcast media (aggregate or decorative flakes) onto the wet slurry. Do not broadcast onto the wet edge area until settling and backrolling is complete. Continue broadcasting until no wet areas remain.
7. After curing (approximately 6-8 hours to withstand foot traffic), remove all excess broadcast media and scrape floor as required.
8. Apply specified topcoat to lock system and achieve desired slip resistance.

Application: SPARTACOTE Urethane Cement Cove Base

**Always install cove base prior to full flooring system to ensure clean transition between vertical and horizontal surfaces.

Typical Application

3/16" (4.7 mm) thickness vertical Cove Base

Material Quantities

1/4 (0.9 L) Gallon Part A, 1/4 (0.9 L) Gallon Part B
1 COVE BASE Filler Bag 28.5 LB (11.70 kg)
1 POWDER Pigment PACK

Coverage:

35 in LFT unit (10.7 m/unit) for a 3/16" (4.7 mm) x 4" (101 mm) Cove Base

1. To prevent lifting or delamination, keyways (minimum 5/16" wide x 5/16" (7.9 mm x 7.9 mm) deep) must be cut at all terminations, joints, columns, doorways, and drains.
2. Clean sand and dust from prepared concrete where the floor is to be installed.
3. Prime area where cove base will be installed with SPARTACOTE Urethane Cement Top Coat.
4. Add ¼ gallon (0.9 L) of Part A into the mixing pail.
5. Add 1 Powder Pigment bag to Part A and mix with slow speed drill and mixing paddle for about 15 seconds.
6. Add ¼ gallon (0.9 L) of Part B, mix another 15 seconds
7. Gradually add all contents of a bag of the cove base filler (28.5 lb bag) (12.9 kg) into the liquid mixture and mix thoroughly until all particles are wetted out, normally about two minutes.
8. Immediately after mixing (within 3 minutes), apply the mixed cove based material into the vertical surface by hand trowel.
9. Do not overwork the mortar.
10. To smooth trowel marks, immediately roll the surface lightly with a mohair roller. Excessive rolling may cause blisters. NOTE: Late or heavy rolling may induce pinholes.
11. Lay abutting edges within 10 minutes to ensure a clean edge.

Cleaning of Tools

Mineral Spirits- Caution- Mineral Spirits are flammable. Keep away from flames and only use in well ventilated areas.

6. AVAILABILITY AND COST

Availability

LATICRETE® and LATAPOXY® 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

www.laticrete.com

Cost

Contact a LATICRETE Representative in your area.

7. WARRANTY

LATICRETE 1-Year PRODUCT Warranty

8. MAINTENANCE

- A) 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 (e.g. Simple Green®). 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.spartacote.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. 235

Telephone: +1.203.393.0010, ext. 235

Fax: +1.203.393.1948

Technical and Safety Literature

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

10. FILING SYSTEM

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

DS 014.4: SPARTACOTE Urethane Cement ATS

DS 230.13: LATICRETE 1 Year Product Warranty