



SPARTACOTE™ Urethane Cement ATS

DS-14.4-0519

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

SPARTACOTE™ Urethane Cement ATS

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 Urethane Cement ATS is a seamless flooring system designed for heavy duty industrial applications experiencing thermal shock, impact, abrasion and chemical exposure. It is typically installed at 1/8" – 1/4" (3-6 mm) in thickness depending on the application and consists of a Part A & B liquids, Part C slurry powder and optional SPARTACOTE Urethane Cement Pigments.

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

Uses

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

Advantages

- Seamless finish
- Excellent abrasion, impact and chemical resistance
- Resistant to thermal shock
- Resistant to fungi growth per ASTM G-21

Suitable Substrates

- Concrete
- Quarry Tile

Packaging

Part A & B Liquids

9250-0001-1 Part A: 1 gal (3.7L) liquid

9252-0005-1 Part B: 1 gal (3.7L) liquid

Part C Slurry Powder

9254-0001-1 ATS Part C: 56 lb (25.4kg) powder

Urethane Cement Pigments

9260-0001-1 Medium Grey: 1 lb (0.5kg) pigment

2961-0001-1 Dark Grey: 1 lb (0.5kg) pigment

9262-0001-1 Tan: 1 lb (0.5kg) pigment

9263-0001-1 Green: 1 lb (0.5kg) pigment

9264-0001-1 Red: 1 lb (0.5kg) pigment

9264-0001-1 Black: 1 lb (0.5kg) pigment

Approximate Coverage

1/8" (3 mm)	64 ft ² /unit (5.9 m ² /unit)
1/4" (4 mm) with broadcast	42 ft ² /unit (3.9 m ² /unit)

Shelf Life

Factory sealed containers of the following products are guaranteed to be of first quality if stored off the ground in a clean, dry area.

Urethane Cement Liquids (Parts A & B): 1 Year. Urethane Cement

Powders: 6 months. Urethane Cement Pigments: N/A

Limitations

- SPARTACOTE Urethane Cement ATS is not color stable unless UV resistant top-coat is used
- Do not install on wet concrete
- Substrate temperature must be between 40°F (4°C) and 85°F (29°C)
- Floors should be properly sloped to drain to prevent standing water
- Spills should be removed as soon as possible to prevent potential hazards
- Material temperature at installation must be between 50°F (10°C) and 80°F (26°C)

Cautions

- FOR PROFESSIONAL USE ONLY
- Causes skin irritation
- Causes serious eye irritation
- 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.

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

4. TECHNICAL DATA

Physical Properties

Test	Test Method	Results
Bond Strength	ASTM D4541	>300 psi (>2.1 Mpa) - Concrete Failure
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	ASTM D4226	≥140 in-lb.f (≥1613 gram-force meter)

Working Properties

Property Name	Property Value
Working Time	15 minutes
Minimum Re-Coat Time	6 - 8 hours
Maximum Re-coat Time	24 Hours
Foot Traffic / Vehicular Traffic	12 hours / 24 hours
Full Cure	7 Days

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

SPARTACOTE Urethane Cement ATS may be installed on concrete after a minimum of 7 days and/or when the concrete reaches a minimum of 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 flooring.

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. Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed. 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-4 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.

All concrete surface irregularities, cracks, expansion joints, control joints and terminations should be properly addressed and prepared prior to application of the flooring. 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, walls, and drains. Moving joints and cracks will reflect through the final installed SPARTACOTE Urethane Cement flooring.

Mixing

Mix Ratio

1 gal Part A : 1 gal Part B : 56 lb Part C : 1 lb Pigment

3.8L Part A : 3.8L Part B : 25.4 kg Part C : 0.5 kg Pigment

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.

With the mixer running, pour 1 gallon (3.7L) Part A into the pail. Add 1 SPARTACOTE Urethane Powder Pigment package to Part A and mix about 15 seconds. 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. Gradually add all contents of a SPARTACOTE Urethane Cement ATS Part C slurry powder into the liquid mixture and blend thoroughly until all particles are wetted out, normally about two minutes.

Application

If installing an integral cove such as SPARTACOTE Urethane Cement Cove Base, installation of the cove should be done prior to applying the floor to ensure a clean transition. Refer to DS 36573.0 SPARTACOTE Urethane Cove Base for instructions.

Immediately after mixing (within 3 minutes), spread the mixed SPARTACOTE Urethane Cement ATS onto the floor at the desired thickness using cam rake or trowel. Lay abutting edges within 10 minutes to ensure a clean edge. Maintaining a wet edge is important in avoiding lines and ridges on the finished floor. Backroll across slurry with a spiked roller to help settle and even out the finish.

For broadcast systems, broadcast to rejection specified broadcast media (aggregate, quartz or decorative flakes) into the wet slurry. Do not broadcast onto the wet edge area until settling and backrolling is complete. Continue broadcasting until no wet areas remain. Allow floor to cure for approximately 6-8 hours to withstand foot traffic and remove all excess broadcast material and scrape the floor as required.

Apply optional topcoat if desired for improved UV stability, abrasion, stain and chemical resistance. Consult a LATICRETE Technical Service Representative for best options.

Cleaning of Tools

Use Mineral Spirits to clean tools

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.

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™ 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. 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. 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 014.5: SPARTACOTE UC Topcoat
- DS 230.13: LATICRETE 1 Year Product Warranty
- TDS 420: SPARTACOTE Floor Maintenance Guide
- DS 35237.0: SPARTACOTE Urethane Cement SL
- DS 36573.0: SPARTACOTE Urethane Cement Cove Base