



SPARTACOTE® Epoxy Membrane

DS-622.3-0724

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

SPARTACOTE® Epoxy Membrane

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 Epoxy Membrane is a high solids flexible epoxy membrane underlayment designed to bridge non-structural surface cracks while also providing positive/negative waterproofing. It can be used in combination with other SPARTACOTE products to produce a durable, seamless coating system.

Uses

- Underlayment in SPARTACOTE resinous coating systems
- Bridge non-structural surface cracks in concrete
- Waterproofing membrane

Advantages

- Combines exceptional strength and flexibility
- Bridges non-structural surface cracks up to 1/8"
- Limits crack transmission through system
- Provides positive/negative waterproofing
- Maintains flexibility even at cold temperatures

- For floors and walls

Suitable Substrates

- Concrete
- Tile
- CMU
- SPARTACOTE Epoxy Floor Systems
- SPARTACOTE Polyaspartic Floor Systems

Packaging

SPARTACOTE Epoxy Membrane is mixed 1.0A:1.1B by volume. Components are pre-packaged in correct volumes to yield 5 gals (18.9L) of mixed material.

- Part A
2.4 gal (9.0L) in a 6 gal (22.7L) pail
- Part B
2.6 gal (9.9L) in a 3.5 (13.2L) gal pail

Approximate Coverage

WFT	DFT	Coverage
20.0 mils (0.51 mm)	19.2 mils (0.49 mm)	80 ft ² /gal (2.0 m ² /L)
30.0 mils (0.76 mm)	28.8 mils (0.73 mm)	53 ft ² /gal (1.3 m ² /L)
40.0 mils (1.02 mm)	38.4 mils (0.98 mm)	40 ft ² /gal (1.0 m ² /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.

Shelf Life

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

Limitations

- Substrate temperature of concrete 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 the dew point

- Not to be used as a roofing membrane or in submerged applications.
- Not for use in pools or fountains

Working properties based on 75F (23.9C) and 50% RH. Changes in ambient conditions may cause times to vary.

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.
- Wear protective gloves, protective clothing and eye protection.
- Causes severe skin burns. May cause an allergic skin reaction. If on skin: Wash with plenty of water.
- 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. Immediately call a poison center or doctor.
- Keep out of reach of children.

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

It is recommended to prime all surfaces to be coated prior to application of SPARTACOTE Epoxy Membrane. The use of a primer will increase adhesion to the substrate and reduce the occurrence of fisheyes, blistering, pinholes & outgassing. Ensure that proper recoat windows are observed. See applicable primer technical data sheet for surface preparation requirements.

Compatible SPARTACOTE Primers:

- SPARTACOTE PRIME-N-GO™ (DS 36651)
- SPARTACOTE General Primer (DS 622.6)
- LATICRETE VAPOR BAN™ E (DS 36547)
- LATICRETE VAPOR BAN ER (DS 35216.0)

4. TECHNICAL DATA

VOC/LEED Product Information

<100 g/L (as intended for use)

Substrate defects (voids, bugholes, divots, etc.) should be filled smooth with surrounding substrate surface prior to the application of SPARTACOTE Epoxy Membrane.

Physical Properties

Property	Test Method	Result
Adhesion	ASTM D7234	>300 psi (>2.1 MPa) Substrate Failure
Tensile Strength	ASTM D2370	400 psi (2.8 MPa)
Crack Bridging	---	up to 1/8" (3.2 mm)
Low Temperature Flexibility	ASTM D522M	1/4" (6.4 mm) at 32°F (0°C)
Impact Resistance	ASTM D5420	56 in-lbs (6.3 n-m)
Water Absorption	ASTM D570	<1% by wt.
Hydrostatic Pressure (Positive)	ASTM D4068	PASS
Hydrostatic Pressure (Negative)	ASTM D7088	PASS @ 16 psi

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. Substrate defects (voids, bugholes, divots, etc.) should be filled smooth with surrounding substrate surface utilizing SPARTACOTE Fast Fix prior to the application of SPARTACOTE Epoxy Membrane.

Concrete must be mechanically profiled to an ICRI CSP 3 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. If wet grinding, surface must be allowed to completely dry prior to coating.

Working Properties

Property	Value
% Solids	~96% by vol.
Mix Ratio	Pre-measured 1.0A:1.1B by vol.
Working Time	30-40 minutes
Min Recoat Time	7 hours
Max Recoat Time	72 hours
Full Cure	7 days

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 moisture prior to installation of any coatings. The relative humidity (RH) of the slab must not exceed 75% as tested per ASTM F2170 or >3lbs/1000sqft/24hr per ASTM F1869. If moisture in the slab exceeds these limits, the use of VAPOR BAN™ ER

or VAPOR BAN E is required prior to installing SPARTACOTE Epoxy Membrane.

Surface Preparation - Over existing tile

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

Mixing

SPARTACOTE Epoxy Membrane is provided in pre-measured units and when mixed will yield 5 gal (18.9 L) of material.

IMPORTANT: Settling of material over time is normal. Prior to mixing, mechanically mix Part A separately for 1-2 minutes to disperse any fillers which may have settled.

Mix pre-measured unit of Part A with pre-measured unit of Part B for 2-3 minutes. When mixed, material will have a dark grey appearance. Do not tint or pigment. Pour mix directly onto the primed concrete.

Application

SPARTACOTE Epoxy Membrane may be applied by notched squeegee. Suggested application thickness is 30 mils (0.8mm) WFT or a spread rate of 53 ft²/gal (1.3 m²/L). Spread evenly over all primed surfaces and immediately backroll with a spiked roller to deaerate and help level.

For vertical applications, SPARTACOTE Epoxy Membrane may be applied by roller. Spread evenly over all primed surfaces. Two coats may be necessary to achieve a 20-30 mils (0.5-0.8 mm) total thickness.

SPARTACOTE Epoxy Membrane is designed to be used as an underlayment in SPARTACOTE resinous coating systems. It is not recommended as a standalone product. Consult a LATICRETE Technical Service Representative for best options.

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.

Storage

Store in a clean, dry environment out of direct sunlight between 40°F - 100°F (5°C - 38°C).

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

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 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. 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 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](https://www.laticrete.com). The following is a list of related documents:

- DS 230.13: LATICRETE Product Warranty
- TDS 420: SPARTACOTE Floor Maintenance Guide
- DS 36651: SPARTACOTE PRIME-N-GO
- DS 622.6: SPARTACOTE General Primer
- DS 36547: LATICRETE VAPOR BAN E
- DS 35216: LATICRETE VAPOR BAN ER

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