



# **SUPERCAP®**

Perfectly Flat Floors. Delivered.™

## 1. PRODUCT NAME

SUPERCAP® SC500-PLUS

## 2. MANUFACTURER

LATICRETE International, Inc  
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## 3. PRODUCT DESCRIPTION

LATICRETE SUPERCAP SC500-PLUS is a pumpable and pourable, low alkali cement-based, premium self-leveling underlayment based on a proprietary mineral binder system that is used to finish interior concrete and level uneven floor surfaces. Apply it over concrete, exterior glue plywood and other types of sound flooring before installing wood, resilient, cork, sports flooring, ceramic, stone, carpet, decorative coatings, sealers or other flooring systems. Floor covering adhesives that are suitable for concrete can be used on LATICRETE SUPERCAP SC500-PLUS.

### Suitable Substrates (Interior Only)

- Concrete
- Vinyl Tile
- Cement Terrazzo
- Wood
- Ceramic Tile and Stone
- Cement Mortar Beds
- Poured Gypsum Underlayment
- Cement Based Underlayment

### Advantages

- High strength: 5400 PSI
- Eliminates the need for power troweling concrete.
- Eliminates dust, staging material and noise within a building
- Can be installed from 1/8" to 3" and tapered to zero at edges
- Self-drying formula - Finished floor goods may be installed as soon as 16 hours after application.
- Quick Turnaround: Surface is walkable in 1-3 hours and may be open to wheel traffic within 72 hours at 70°F (21°C).
- Can be left open to normal trade's traffic for up to 12 months prior to installation of floor coverings.
- Inorganic-based formulation will not contribute to or harbor growth of mold or mildew.

### Packaging

2,500 lb. supersack (1,043.3 kg)  
7351-2500-21

50 lb. bag (22.7 kg)  
7351-0050-21

### Approximate Coverage

#### Super Sack:

Per 2500 lb (1043 kg) bulk sack SC500 PLUS: 1050 ft² (98 m²) at 1/4" (6 mm) depth\*

#### Bag:

Per 50 lb (22.7 kg): 21 ft² (2 m²) at 1/4" (6 mm) depth\*

\*Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions.

### Shelf Life

Factory sealed containers:

- Supesacks = 6 months\*\*
- Bags = 12 months

\*\* High humidity will reduce the shelf life of bagged product.

### Limitations

- Do not install LATICRETE SUPERCAP SC500-PLUS over Particle board, chipboard, hardboard (Masonite®), Luan panels, asbestos, gypsum-based patching materials, asphalt, coal tar, lightweight insulating concrete or any other dimensionally unstable materials.
- LATICRETE SUPERCAP SC500-PLUS is not recommended for steel-wheeled traffic
- For interior use only
- Do not install when surface temperature is below 40°F (4°C) or above 90°F (32°C)
- Do not install over painted surfaces
- Do not exceed recommended mixing ratio as indicated in mixing instructions. Over watering will weaken product properties. Never mix with cement or admixtures
- Do not apply LATICRETE SUPERCAP SC500-PLUS over waterproofing or crack isolation membranes. Consult LATICRETE SUPERCAP Technical Services for proper installation over moisture mitigation systems.
- Not for use in submerged applications

### Cautions

Before using any LATICRETE SUPERCAP product:

- Check [www.laticretesupercap.com](http://www.laticretesupercap.com) for any technical bulletins or updated information about the product and its application.
- Contact your local LATICRETE SUPERCAP Technical Sales Representative with any questions.
- Consult SDS for LATICRETE SUPERCAP SC500 for more safety information.
- Do not allow foot traffic on finished work until cured.
- Contains cement and silica sand. Causes skin irritation and serious eye damage. Wear protective gloves and eye protection. In case of contact, flush thoroughly with water.
- Do not take internally. Silica sand may cause cancer or respiratory irritation. Do not breathe dust. Wear a respirator in dusty areas.
- Keep out of reach of children



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## 4. TECHNICAL DATA

Specifications are subject to change without notification. Technical data shown in LATICRETE® SUPERCAP® 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 variability of job site factors.



This product has a cradle-to-gate (with options) Product-Specific (Type III) Environmental Product Declaration. The PCR review, life cycle assessment and declaration were independently verified by UL Environment in accordance with ISO 14025, ISO 14040 and ISO 14044.



Pour Depth	1/8" to 3" Average Depth (3 – 76 mm) Consult Technical Services for average depths over 3" (76 mm). Can be tapered at edges
Walkable	1-3 hours at 70°F (21°C)
Flexural Strength (ASTM C348) 28 Day Cure	1000 psi (6.9 MPa)
Compressive Strength (ASTM C 1708) 28 Day Cure	5400 psi (37.2 MPa)
Flammability (ASTM E84-14)	Flame Spread Index: 0 Smoke Developed Index: 0
Set Time (ASTM C1708)	Initial @ 30 - 60 min. Final @ 60 - 120 min.
Installed Dry Weight (per square foot @ 1/4" (6 mm)	2.7 lbs/ft² (13.2 kg/sq.m)

All results are averages and performed in lab conditions.

## 5. INSTALLATION

### Surface Preparation

Refer to TDS 230S LATICRETE SUPERCAP Substrate Preparation and Primer Guide for more detailed surface preparation instructions.

### PRIMING

All surfaces must be primed prior to every LATICRETE SUPERCAP SC500-PLUS application. LATICRETE SUPERCAP Primer Plus is a concentrate and must be diluted with clean potable water. Dilution ratio varies depending on the substrate. See DS 056.0 and TDS230S LATICRETE SUPERCAP Substrate Preparation and Primer Guide for more detailed dilution, approximate coverage and application instructions.

**Note:** Keep primed surface clean. Do not allow any foot traffic onto surface.

## MIXING

**Super Sacks** – Pre-condition LATICRETE SUPERCAP SC500-PLUS to approved application temperature (air temperature between 50–90°F (10–32°C). LATICRETE SUPERCAP SC500-PLUS is blended by qualified LATICRETE SUPERCAP applicators in the mobile blending unit that mixes LATICRETE SUPERCAP products onsite at street level to manufacturer specifications.

**Bags** – SC500 Plus should be mixed with 4.0 – 4.5 quarts (3.8 – 4.3 L) of water per 50 lb. (22.7 kg) bag. Do not over water. For manual application, add product to water and mix for 2 – 3 min with a heavy duty drill (650 rpm) to obtain a lump free mix. A flow test should always be performed to ensure that the mix is homogeneous and free from separation. The ideal flow range for SC500 Plus is 10 – 11" (250 – 280 mm) using the LATICRETE Flow Test Method. See TDS 235 – self-leveling underlayment Flow Test - for more detailed instructions on performing flow tests.

## APPLICATION

Substrate temperature must be a minimum 40°F (4°C) during application and air temperature maintained between 50–90°F (10–32°C). Protect areas from direct sunlight. If required to meet design tolerances, survey surface using a digital or electronic leveling device and apply level pegs as required. Adequate ventilation should be provided to ensure uniform cure. Pump or pour blended material onto substrate at an average thickness ranging between 1/8" to 3" (3–76 mm) for all surfaces. Material can be tapered to zero at edges. Wood substrates require a minimum thickness of 3/4" (19 mm). Immediately following placement lightly smooth the surface and pour lines. When not using level pegs the use of a gauge rake will assist in controlling material depth. Do not expose LATICRETE SUPERCAP SC500-PLUS to rolling dynamic loads, such as forklifts or scissor lifts, for at least 72 hours after installation. Proper application is the responsibility of the user. Field visits by LATICRETE SUPERCAP personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

## FLOORING INSTALLATION

Finished floor goods may be installed as soon as 16 hours after application, subject to ambient conditions and type of flooring materials. Always refer to finished floor manufacturer's recommendations regarding installation instructions, restrictions, moisture conditions and compatibility.

Always test performance suitability and compatibility of finished floor systems prior to their application. Sample surfaces should be installed as a field test so as to be representative of entire surface and tested for intended use.

**Note:** For use under decorative coatings or sealers see TDS234S – LATICRETE® SUPERCAP® Decorative Coating System Guide, or TDS 423 - Installing a SPARTACOTE™ Resinous Floor System over a Cement Self-Leveling Underlayment

## CLEAN UP

In case of spillage, sweep or vacuum into appropriate container and dispose of in accordance with applicable local, provincial and federal regulations.



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## 6. AVAILABILITY

### Availability

LATICRETE SUPERCAP materials are available exclusively

### For Information, Call:

- Toll Free: 1.800.243.4788, ext. 1950

For on-line information, visit LATICRETE SUPERCAP at

[www.laticretesupercap.com](http://www.laticretesupercap.com).

## 7. WARRANTY

See 10. FILING SYSTEM

- LATICRETE 1 Year Product Warranty DS230.13.

## 8. MAINTENANCE

No maintenance required

## 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

## 10. FILING SYSTEM

Additional product information is available on our website at

[www.laticretesupercap.com](http://www.laticretesupercap.com)

The following is a list of related documents:

- LATICRETE 1 Year Product Warranty DS230.13.
- DS 058.0: SUPERCAP Primer Plus
- DS-307 PRIME N BOND
- DS-35222 VAPOR BAN PRIMER ER
- TDS 230S: LATICRETE SUPERCAP Substrate Preparation and Primer Guide



