



SUPERCAP[®]
Perfectly Flat Floors. Delivered.™

1. PRODUCT NAME

SUPERCAP[®] SC500-LW

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: www.laticrete.com

3. PRODUCT DESCRIPTION

LATICRETE SUPERCAP SC500-LW is a light weight, 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 or other flooring systems. Most floor covering adhesives that are suitable for concrete can be used on LATICRETE SUPERCAP SC500-LW.

Suitable Substrates (Interior Only)

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

Advantages

Lightweight mix design yields approximately 80-90 lb/ft³ (1281 - 1442 kg/m³) - a reduction of more than 30% versus standard SC500.

- Mix design includes 20%+ by weight post-consumer recycled content.
- Can be poured up to 4" (102mm) in one lift.
- Perfect substitution for conventional SLU in structures with weight / capacity restraints.
- Eliminates the need for power troweling concrete.
- Eliminates dust, staging material and noise within a building
- Finished floor goods may be installed as soon as 7 days after application, subject to thickness, drying conditions and type of flooring materials.
- Surface is walkable in 2-4 hours and may be open to wheel traffic within 72 hours at 70°F (21°C).
- Can be left open to normal trade traffic for up to 12 months prior to installation of floor coverings.
- Inorganic formulation will not contribute to or harbor growth of mold or mildew

Packaging

1,800 lb supersack (816.4 kg)*
7330-1800-21

Approximate Coverage

Per 1800 lb (1043 kg) bulk sack of SC500-LW: 1296 ft² (10.4 m²) at 1/4" (6 mm) depth*

*Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions, type of equipment, thickness applied and applications methods used.

Shelf Life

Factory sealed containers:

- Supersacks = 6 months**

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

Limitations

- Do not install LATICRETE SUPERCAP SC500-LW 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-LW 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-LW 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 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-LW for moresafety information
- Do not allow foot traffic on finished work until cured
- Contains cement. 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



SUPERCAP®

Perfectly Flat Floors. Delivered.™

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.



Pour Depth	1/4" to 4" Average Depth (6 – 102 mm) Consult Technical Services for average depths over 4" (102 mm)
Walkable	2-4 hours at 70°F (21°C)
Flexural Strength (ASTM C 1708) 28 Day Cure	500 psi (3.4 MPa)
Compressive Strength (ASTM C 1708) 28 Day Cure	3000 psi (20.3 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" (25 mm))	7.1 lbs/ft² (35 kg/m²)

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-LW 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

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

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 1/4" to 4" (6–102 mm) for all surfaces. Wood substrates require a minimum thickness of 3/4" (19 mm). Immediately following placement lightly smooth the surface and pour lines. When not using elevation pins the use of a gauge rake will assist in controlling material depth. Do not expose LATICRETE SUPERCAP SC500-LW 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 7 days after application, subject to thickness, drying conditions and type of flooring materials. Always refer to finished floor manufacturer's recommendations regarding installation instructions, restrictions, moisture conditions and compatibility.

An additional layer of SC500 or SC500-PLUS may be applied at a minimum thickness of 1/8" (3 mm) on top of the hardened SC500-LW as required for surface finish.

Moisture-sensitive floor goods should not be installed until floor is acceptably dry. Perform flooring manufacturer's recommended moisture testing on LATICRETE SUPERCAP SC500-LW prior to installation of moisture-sensitive floor goods.

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.

CLEAN UP

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

6. AVAILABILITY

Availability

LATICRETE SUPERCAP materials are available exclusively through qualified LATICRETE SUPERCAP Applicators.

For Information, Call:

- Toll Free: 1.800.243.4788, ext. 1950

For on-line information, visit LATICRETE SUPERCAP at www.laticretesupercap.com.



SUPERCAP[®]

Perfectly Flat Floors. Delivered.™

7. WARRANTY

See 10. FILING SYSTEM

- LATICRETE 1 Year Product Warranty DS230.13.

8. MAINTENANCE

No maintenance required.

9. TECHNICAL SERVICES

Technical Assistance

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.

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

