



# **SUPERCAP**

Perfectly Flat Floors. Delivered.™

## 1. PRODUCT NAME

SUPERCAP® SC-650-MC

## 2. MANUFACTURER

LATICRETE International, Inc  
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## 3. PRODUCT DESCRIPTION

LATICRETE SUPERCAP SC650-MC is a Medium / Coarse-sanded, pumpable and pourable, low alkali cement-based, premium self-leveling topping suitable as a high-strength wear surface or underlayment. The product is based on a proprietary mineral binder system that is used to finish interior concrete and level uneven floor surfaces. Apply it over concrete and other types of sound substrates before polishing, installing coatings or other flooring systems. Most floor covering adhesives that are suitable for concrete can be used on SUPERCAP SC650-MC.

### Suitable Substrates (Interior Only)

- Concrete
- Cement Terrazzo
- Cement Mortar Beds
- Cement Based Underlayment
- LATICRETE moisture mitigation products

### Advantages

- High strength: Over 7000 PSI
- Eliminates dust, staging material and noise within a building
- Provides a durable, attractive cementitious wear-surface grade topping, suitable for polishing and / or coating.
- Transforms rough concrete to a flat and smooth surface.
- Surface can be tinted using L&M™ Vivid DyeSystem.
- Polishing may be started at 24 hours (or even sooner) after its application, subject to thickness and drying conditions.
- Surface is walkable in 2–4 hours and may be open to full traffic within 24 hours at 70°F (21°C).
- Inorganic-based formulation will not contribute to or harbor growth of mold or mildew.
- Used in: malls, department stores, super markets, hotels, apartment buildings, dealerships and much more

### 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: 1000 ft² (92 m²) at 1/4" (6 mm) depth\*

#### Bag:

Per 50 lb (22.7 kg): 20 ft² (1.9 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 SC650-MC 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.
- 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 over crack isolation membranes.
- Consult LATICRETE SUPERCAP Technical Services for installation over waterproofing systems.
- Not for use in submerged applications.
- Cracks are common and expected with decorative cement based topping products. Cracks are not considered a product defect. LATICRETE cannot predict if or to what extent cracking will occur.
- LATICRETE concrete overlay's are not intended to be perfectly homogeneous in appearance. Shade of color may vary slightly as these use natural mined resources. The typical application procedures of spreading and smoothing, along with the sanding process, will result in optical variations in the appearance of the floor. The aesthetic appearance that is created is subject to possible technical and artistic tolerances. Variations in the overall finished appearance should be expected.



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## 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 SC650-MC 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

## 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	1/4" to 2" Avg. Depth ( 6 – 51 mm) 1/2" (12 mm) minimum for polishing applications. Consult Technical Services for avg. depths over 2" (51mm)
Walkable	2 to 4 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	7065 psi (48.7 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)	2.8 lbs/ft <sup>2</sup> (13.7 kg/m <sup>2</sup> )

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

**Underlayment Applications:** When applying SUPERCAP SC650-MC as an underlayment to receive floor coverings, apply LATICRETE SUPERCAP Primer Plus. See DS 056.0 and TDS230S LATICRETE SUPERCAP Substrate Preparation and Primer Guide for more detailed dilution, approximate coverage and application instructions.

**Wear Surface Applications:** When applying SUPERCAP SC650-MC as a wear surface over concrete, apply NXT Epoxy Primer with sand broadcast as primer. See DS-029.3 NXT® Epoxy Primer for approximate coverage and application instructions. When applying over substrates other than concrete, consult LATICRETE Technical Services. 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 SC650-MC to approved application temperature (air temperature between 50–90°F (10–32°C)). LATICRETE SUPERCAP SC650-MC 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** – SC650-MC should be mixed with 3.5 – 4.0 quarts (3.3 – 3.8 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. 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 SC650-MC to rolling dynamic loads, such as forklifts or scissor lifts, for at



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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 1 day 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.

Moisture-sensitive floor goods should not be installed until floor is acceptably dry. Perform flooring manufacturer's recommended moisture testing on concrete substrate 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

### **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**

Refer to LATICRETE SUPERCAP TDS234S for suggested maintenance for decorative surfaces.

## **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: LATICRETE SUPERCAP Primer Plus
- DS-029.3-0917: NXT® Epoxy Primer
- TDS 230S: LATICRETE SUPERCAP Substrate Preparation and Primer Guide
- TDS 234S: LATICRETE SUPERCAP Decorative Coating System Guide
- TDS 238S: Guide for Polishing SUPERCAP SC650-MC



