



SUPERCAP®

Perfectly Flat Floors. Delivered.™

1. PRODUCT NAME

SUPERCAP® 650-MC

2. MANUFACTURER

LATICRETE International, Inc.

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Bethany, CT 06524-3423 USA

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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.

Uses

- New construction
- Repairs to polished slabs
- Used in: malls, department stores, super markets, hotels, apartment buildings, dealerships and much more

Advantages

- 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 Dye System.
- Polishing may be started as soon as 1 day after 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.

Suitable Substrates (Interior Use Only)

- Wood
- Ceramic Tile & Stone
- Cement Mortar Bed
- Concrete Slabs

Packaging

- 2,500 lb (1134 KG) bulk sack / 18 per truck / Part number is 7376-2500-21
- 50 lb (22.7 KG) bag / 48 per pallet / Part number is 7376-0050-21

Approximate Coverage

Size	1/4" 6mm	1/2" 12mm	3/4" 18mm	1" 25mm	2" 51mm
Per 2,500 lb bulk 1134KG	1000 ft ² 92m ²	500 ft ² 46m ²	294 ft ² 27m ²	238 ft ² 22m ²	114 ft ² 11m ²
Per 50 lb bag 22.7KG	20 ft ² 1.9m ²	10 ft ² 0.9m ²	5.8 ft ² 0.5m ²	4.7 ft ² 0.4m ²	2.3 ft ² 0.2m ²

Shelf Life

Store in original, factory sealed container. Store off the ground in a dry area. Shelf life is 6 months from date of manufacture for bulk sacks. Shelf life is 12 months from date of manufacture for bags. Container should be kept tightly sealed when not in use.

Limitations

- Do not install 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.

Cautions

- 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 more safety information.
- Do not allow foot traffic on finished work until cured.
- Do not take internally. Silica sand may cause cancer, respiratory irritation or serious lung problems. Do not breathe dust.
- Keep out of reach of children.
- Contains cement. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. In case of contact, flush thoroughly with water.

- Wear protective gloves/protective clothing/eye protection/face protection.

4. TECHNICAL DATA

Physical Properties

Test	Test Method
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 C 1708) 28 Day Cure	900 to 1,000 psi (6.2 to 6.9 MPa)
Compressive Strength (ASTM C 1708) 28 Day Cure	1 day = 3970 psi (27.4 MPa) 7 day = 5750 (39.6 MPa) 28 day = 7065 psi (48.7 MPa)
Set Time (ASTM C1708)	Initial @ 30 - 60 min. Final @ 60 - 120 min.
Installed Dry Weight (per square foot @ 1/4" (6mm)	2.8 lbs/ft ² (13.7 kg/m ²)

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

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.

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

MIXING

Bulk Sacks and Bags: Pre-condition SUPERCAP SC650-MC to approved application temperature (air temperature between 50–90°F (10–32°C)). SUPERCAP SC650-MC is

blended by qualified LATICRETE SUPERCAP Applicators in the mobile blending unit that mixes SUPERCAP products onsite at street level to manufacturer specifications. Mix 50 lb. (22.7 kg) bags with 3.5 - 4.0 quarts (3.3-3.8 liters) of cool, clean 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.

CAUTION: DO NOT OVER WATER OR OVER MIX. OVER WATERING WILL CAUSE BLEEDING OR SAND SEGREGATION.

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 (level pegs are not recommended for wear surface applications). Adequate ventilation should be provided to ensure uniform drying. Pump or pour blended material onto substrate at an average thickness ranging between 1/4" to 2" (6–51 mm) for underlayment applications, and 1/2" to 2" (12-51 mm) for wear surface applications. 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 SUPERCAP SC650-MC to rolling dynamic loads, such as forklifts or scissor lifts, for at least 24 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.

POLISHING

Refer to TDS 238S Guide for Polishing SUPERCAP SC650-MC. Sample surfaces should be installed as a field test so as to be representative of entire surface and tested for intended use.

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 through qualified LATICRETE SUPERCAP Applicators.

For Information, Call:

Toll Free: 1.800.243.4788

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

7. WARRANTY

See 10. FILING SYSTEM:

- LATICRETE Product Warranty

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 SUPERCAP Technical Service Hotline:

Toll Free: 1.800.243.4788, ext. 1235

Fax: +1.203.393.1948

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at laticretesupercap.com.

10. FILING SYSTEM

Additional product information is available on our website at laticretesupercap.com. The following is a list of related documents:

- DS-230.13 LATICRETE Product Warranty
- 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

LATICRETE SUPERCAP, LLC.

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