



SUPERCAP

The Next Generation Slab™

1. PRODUCT NAME

LATICRETE® SUPERCAP® SC500

2. MANUFACTURER

LATICRETE Middle East LLC.

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3. PRODUCT DESCRIPTION

LATICRETE SUPERCAP SC500 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 or other flooring systems. Floor covering adhesives that are suitable for concrete can be used on LATICRETE SUPERCAP SC500.

Suitable Substrates (Interior Only)

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

Advantages

- Eliminates the need for power troweling concrete.
- Finished floor goods may be installed as soon as 1 day after application, subject to thickness, drying conditions and type of flooring materials.
- Surface is walkable in 3–4 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 formulation will not contribute to or harbor growth of mold or mildew.

Packaging

23 Kg bag – 63 bags per pallet
1 set - 2000 Kg supersack

Approximate Coverage

23 KG Bag–3.95 m² at 3 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 of this product are guaranteed to be of first quality for six (6) months** if stored off the ground in a dry area.

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

Limitations

- Do not install LATICRETE SUPERCAP SC500 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 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 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 MSDS for more safety information.
- Do not allow foot traffic on finished work until cured. Contains cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Do not take internally. Silica sand may cause cancer or serious lung problems. Avoid breathing 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 been certified for Low Chemical Emissions (ULCOM/GG UL2818) under the UL GREENGUARD Certification Program For Chemical Emissions For Building Materials, Finishes and Furnishings (UL 2818 Standard) by UL Environment.

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	Average Depth 3 – 38 mm Consult Technical Services for average depths over 38 mm
Walkable	3-4 hours at 25°C
Tensile Bond Strength (ASTM C1583.)	1.0 – 1.5 MPa
Compressive Strength (ASTM C 1708)	7 Day Cure - ≥ 20 MPa 28 Day Cure - ≥ 30 MPa
Flexural strength (EN 13892)	7 Day Cure - ≥ 5 MPa 28 Day Cure - ≥ 7 MPa
Initial Set (at 25°C)	60 – 80 minutes
Final Set (at 25°C)	80 – 120 minutes

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

23kg Bags – Pre-condition LATICRETE SUPERCAP SC500 to approved application temperature (air temperature between 50–90°F (10–32°C). Add the entire bag to 5 - 5.3 L of clean, cool water and mix with a high speed drill (650 RPM). CAUTION: DO NOT OVER WATER OR OVER MIX. OVER WATERING WILL CAUSE BLEEDING OR SAND SEGREGATION. Mix thoroughly for approximately 1 ½ – 2 minutes to obtain a uniform, lump-free consistency; scrape container’s sides and remix to incorporate remain powder.

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 drying. Pump or pour blended material onto substrate at an average thickness ranging between 1/4" to 1 1/2" (6–38 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 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 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. 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.



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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:

Tel: +971 7 2446396

For on-line information, visit LATICRETE SUPERCAP at

www.laticretesupercap.com/

www.laticrete.me

7. WARRANTY

See 10. FILING SYSTEM

DS 230.5SC: LATICRETE® SUPERCAP® 5 Year
Product Warranty

8. MAINTENANCE

No maintenance required.

9. TECHNICAL SERVICES

Technical Assistance

Information is available by calling the LATICRETE SUPERCAP Contact;

Tel: +971 7 2446396

Fax: +971 7 2445915

E-mail: enquiry@laticrete.me

10. FILING SYSTEM

Additional product information is available on our website at

www.laticretesupercap.com.

The following is a list of related documents:

DS 230.05SC: LATICRETE® SUPERCAP® 5 Year
Product Warranty

DS 058.0: LATICRETE SUPERCAP Primer Plus

TDS 230S: LATICRETE SUPERCAP Substrate
Preparation and Primer Guide