



COLOSSAL 117-CSL CEMENTITIOUS SELF-LEVELER

PRODUCT DATA SHEET

623 Chatsworth Hwy 225

Calhoun, GA 30701

706.403.3286

lamininindustries.com

DESCRIPTION

Colossal 117-CSL is a self-leveling, cement-based topping that can be used as a wear surface on interior and elevated exterior areas where worn concrete is an issue. Colossal 117-CSL can be installed to provide a smooth troweled appearance or can be polished to provide a more decorative appeal.

FEATURES AND BENEFITS

- Easy to mix and install
- Natural-concrete gray in color
- Can be used in exterior non-freeze/thaw areas that are elevated
- Traffic-bearing
- Low shrinkage

WHERE TO USE

- Warehouse floors
- As a wear topping on flat concrete roof decks
- Showrooms, lobbies and consistently wet areas

SURFACE PREPARATION

- Thoroughly clean the surface of any substance that could interfere with the bond of the installation material, including dirt, paint, tar, asphalt, wax, oil, grease, latex compounds, sealers, curing compounds, form-release agents, laitance, loose toppings, foreign substances, and adhesive residue.
- Mechanically profile and prepare concrete surfaces by engineer-approved methods in accordance with the most current ICRI 310.2R guidelines to obtain a concrete surface profile (CSP) of #3 to #5.
- Ensure that the substrate and ambient room temperatures are between 40°F and 95°F (4°C and 35°C) before application.
- Fill deep areas, holes and cracks with appropriate concrete restoration materials.
- **Install Laminin's Colossal 117-HMA moisture barrier if the MVER of the primer exceeds 5 lbs. per 1,000 sq. ft. (2.27 kg per 92.9 m²) per 24 hours.**
- **Prime the prepared area with Laminin's Colossal 117-EPS at a rate of 80 to 133 sq. ft. per U.S. gal. (1.96 to 3.26 m² per L). Using a 10/20 graded sand, immediately broadcast to refusal.**
- Allow to cure for at least 12 hours. Sweep and/or vacuum the free sand from the substrate.

MIXING

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

1. Colossal 117-CSL requires 1 to 1.05 U.S. gal. (3.79 to 3.97 L) of water per 50-lb.(22.7-kg) bag.
2. Into a clean mixing container, pour 3/4 of the required water.
3. Using a low-speed drill and appropriate mixer, slowly add the Colossal 117-CSL powder to the water. Mix for 1 to 2 minutes.
4. While mixing, add the remaining water and continue to mix to achieve a smooth, homogenous consistency.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Pour material from mixing vessel onto the prepared sand broadcast floor working from one side to the other in a ribbon.
2. **Colossal 117-CSL can be poured to depths ranging from 1/4" to 2" neat and can be extended with 3/8" pea gravel for thicker applications**
3. Immediately, gauge the depth of the placed Colossal 117-CSL with a gauge rake to the desired application thickness.
4. After gauging Colossal 117-CSL to the desired thickness, use a smoother paddle or spiked roller over the gauged area.
5. If more Colossal 117-CSL is required for the area, pour the next mixed product into the already placed Colossal 117-CSL to minimize mottling and air bubbles.
6. Allow to cure 24 to 36 hours. Colossal 117-CSL will form a glossy film upon curing, similar the finish of a hard-troweled slab.
7. Colossal 117-CSL may be polished 36 to 48 hours after placement.
8. Colossal 117-CSL may be treated with **MAPEI's Mapecrete™ Hard LI, Mapecrete Hard SB or Mapecrete Hard SI densifier**. Refer to the appropriate Product Data Sheet (PDS) for more information.
9. **Colossal 117-CSL can have Mapecrete Protector FF** applied to polished or unpolished product once cured to aid in protecting the final surface.

LIMITATIONS

- Air, material and substrate temperatures during application must be between 40°F and 95°F (4°C and 35°C).
- **The use of Mapecrete Film may be needed** when used in temperatures higher than 85°F (29°C). Refer to the PDS for more information.
- Always honor all control, construction and isolation joints.
- Do not use for exterior applications in freeze/thaw areas.



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Product Performance Properties

LABORATORY TESTS	RESULTS
Compressive strength – ASTM C109 (CAN/CSA-A5)	
1 day	> 2,000 psi (13.8 MPa)
7 days	> 4,000 psi (27.6 MPa)
28 days	> 5,000 psi (34.5 MPa)
Flexural strength – ASTM C348 (CAN/CSA-A23.2-8C)	
28 days	> 750 psi (5.17 MPa)
Slant/shear bond strength – ASTM C882 (modified)	
28 days	> 3,000 psi (20.7 MPa)
Length change – ASTM C157 (modified)	
28 days	< 0.08%

Shelf Life and Product Characteristics before mixing

Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C)
Physical state	Powder
Color	Gray

Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

Application Properties

Mixing	1.00 to 1.05 U.S. gal. (3.79 to 3.97 L) of water per 50-lb. (22.7-kg) bag
Application temperature range	40°F to 95°F (4°C to 35°C)
Set time for hydraulic mortar (ASTM C191)	Initial: About 5 hours Final: About 6 hours

CSI Division Classification

Maintenance of Concrete	03 01 00
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Packaging

SIZE	
Bag: 50 lbs. (22.7 kg)	

Approximate Coverage* per 50 lbs. (22.7 kg)

YIELD	
0.45 cu. ft. (0.0127 m ³)	

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

Refer to the SDS for specific data related to health and safety as well as product handling.