



COLOSSAL 117-UTA URETHANE TURF ADHESIVE

PRODUCT DATA SHEET

623 Chatsworth Hwy 225

Calhoun, GA 30701

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lamininindustries.com

PRODUCT DESCRIPTION

Laminin Colossal 117-UTA – Urethane Turf Adhesive is a high-performance, two-component, fast-set, urethane adhesive designed for the high-performance seaming and direct bonding of artificial turf used in athletic and landscape applications. Colossal 117-UTA is particularly suited for use in areas of low ambient relative humidity and in cool temperatures. Colossal 117-UTA is colored green to blend in with most artificial turf products and cures within 2 to 4 hours to a tough durable bond. Colossal 117-UTA provides seam strengths that are in compliance with FIFA standards.

FEATURES AND BENEFITS

- Cures quickly and provides a moisture-proof, tough bond
- Can be used in cool and arid conditions
- Bonds to virtually all types of artificial turf

INDUSTRY STANDARDS AND APPROVALS

LEED v4 Points Contribution

LEED Points

Health Product Declaration (HPD)*Up to 2 points

* Using this product may help contribute to LEED certification of projects in the category shown above. Points are awarded based on contributions of all project materials.

Additional Green Certifications

- Living Building Challenge (LBC) Red List Free: This product has been verified per the most current Red List on the LBC's Website.

WHERE TO USE

- Interior and exterior artificial grass installations
- Professional and educational sports fields arenas
- Commercial and residential landscaping applications of synthetic grass

LIMITATIONS

- Install only in areas recommended by the turf manufacturer.
- Use only when the ambient temperature is between 32°F and 95°F (0°C and 35°C). Temperatures in excess of 95°F (35°C) will greatly reduce the pot life.

SUITABLE SUBSTRATES

- Use with *Colossal 117 LTT Laminin Turf Tape* or manufacturer-recommended seaming scrim
- Concrete
- Existing cured asphalt pavement in good condition

Consult your Laminin sales representative for installation recommendations regarding substrates and conditions not listed.

SURFACE PREPARATION

- All substrates must be prepared in accordance with the artificial turf manufacturer for the type of intended use and must comply with current regulations or standards.
- All substrates must be structurally sound, dry, solid and stable.
- Substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion.

MIXING

Choose all appropriate safety equipment before use. Refer to the Safety Data Sheet for details.

1. Parts A and B are packaged to exact quantity ratios for maximum performance.
2. Protect mixing area from adhesive spills.
3. Pour all material out of the Part B container into Part A. Place the cap back on the Part B container and turn the container upside-down to ensure that all remaining material drains into the cap. Pour the remaining material into Part A. Always mix complete units. Do not add other materials to this mixture.
4. Use a low-speed mixer (< 300 rpm) to ensure that the material is mixed thoroughly to a smooth, homogenous paste consistency (generally within 3 minutes). Immediately after mixing, apply the adhesive to the substrate.
5. Wash all tools with mineral spirits immediately after mixing. Once cured, Colossal 117-UTA can be removed only by mechanical means.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Artificial turf must be unrolled and acclimated per the manufacturer's written instructions to allow reduction of internal tensions caused by packaging and transport.
2. Select the appropriately notched trowel (see the "Approximate Coverage" section).
3. Spread adhesive evenly over the substrate or seaming scrim, keeping the trowel at a 45-degree angle.
4. Only apply as much adhesive as can be installed within 45 minutes.
5. Install turf in strict accordance with the turf manufacturer's written instructions.
6. Adhesive transfer to the backing should be confirmed periodically by lifting the turf material.

Note: Weights may be required on turf seams to ensure proper bonding and even thatch heights.

CLEANUP

- Clean any adhesive smudges from the turf surface with a white cloth and mineral spirits while the adhesive is still fresh/wet. Note: Colossal UTA is extremely difficult to remove when cured.
- Clean tools with mineral spirits while the adhesive is still fresh/wet.

PROTECTION

- Protect from light traffic at least 12 hrs. and heavy traffic at least 24 hrs.
- For synthetic turf installations, do not put into full service until 2 days after installation or per other turf manufacturer's instructions.



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Product Performance Properties

Laboratory Tests	Results
Polymer type	Polyurethane
Solids content	
Part A	100%
Part B	100%
VOCs (Rule #1168 of California's SCAQMD)	2 g per L
Pot life [†]	45 to 60 minutes
Starting setting time [†]	2 to 3 hours
Final setting time [†]	4 to 6 hours
Flash point (Tag)	> 200°F (93° C)

[†]Temperature greatly affects the pot life and set time of Colossal 117-UTA. In cold temperatures, Part B must be maintained at a minimum of 40°F (4°C). In hot temperatures, the pot life can be reduced by as much as 50%.

Shelf Life and Product Characteristics	
Shelf life	1 year when stored in original, unopened packaging at 73°F (23°C)
Storage conditions	50°F to 90°F (10°C to 32°C)
Color	
Part A	Green
Part B	Brown
Mixture	Dark green

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 Characteristics

	Flash Time*	Working Time**
At 73°F (23°C) and 50% humidity	0 to 10 minutes	45 to 60 minutes

* Flash time is the recommended amount of time for a freshly applied adhesive to remain exposed to the air before the installation of a floor covering.

** Working time is the maximum amount of time that an adhesive can remain exposed to the air and still effectively bond to the floor covering.

Flash time and working time vary based on temperature, humidity, substrate porosity, trowel size and jobsite conditions.

Packaging

Size
2 U.S. gals. (7,57 L)