



Ultrabond®

Turf PU 1K

**Fast-Set Urethane
Turf Seam Adhesive**



DESCRIPTION

Ultrabond Turf PU 1K is a fast-setting, moisture-curing, one-component, polyurethane adhesive specifically designed for seaming and direct bonding of synthetic turf in high-performance sports installations. *Ultrabond Turf PU 1K* can be used in both interior and exterior applications and has excellent weather resistance. *Ultrabond Turf PU 1K* meets FIFA requirements for bond and shear in sports turf applications.

FEATURES AND BENEFITS

- Fast setting time
- Excellent handling characteristics and superior green strength
- Light color
- Meets FIFA standards

INDUSTRY STANDARDS AND APPROVALS

- FIFA joint strength (EN 12228 & EN 13744): > 25 N per 100 mm
- | | |
|--|--------------------|
| <u>LEED Points Contribution</u> | <u>LEED Points</u> |
| IEQ Credit 4.1, Low-Emitting Materials | |
| – Adhesives & Sealants | 1 point |
| IEQ Credit 4.3, Low-Emitting Materials | |
| – Flooring Systems | 1 point |

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

WHERE TO USE

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

LIMITATIONS

- Install only in areas recommended by the turf manufacturer.
- Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C), and when the ambient relative humidity is between 20% and 80%. When the ambient relative humidity is lower than 20%, longer cure times can be expected.
- Do not use to install nonporous turf backings over nonporous substrates.

SUITABLE SUBSTRATES

- *Ultrabond Turf Tape* or manufacturer-recommended seaming scrim
- Exterior and marine-grade plywood, and pressure-treated lumber
- Other approved wood underlayments (per manufacturer recommendations)
- Concrete
- Cement-based, exterior-rated patching and repair compounds
- Existing cured asphalt pavement in good condition



SURFACE PREPARATION

- All substrates must be prepared in accordance with the synthetic playing surface manufacturer for the type of intended use and must comply with current regulations or standards (FIFA).
- All substrates must be structurally sound, dry, solid, stable, even, flat and smooth.
- 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

Note: Wear all appropriate personal safety equipment during use. Refer to Material Safety Data Sheet (MSDS) for more information.

- Ready to use; no mixing is necessary.

PRODUCT APPLICATION

1. Read all installation instructions thoroughly before installation.
2. Synthetic turf must be unrolled and acclimated per manufacturer's written instructions to allow for internal tensions caused by packaging and transport to be reduced.
3. Select the appropriately notched trowel (see "Approximate Product Coverage" section).

4. Spread adhesive evenly over the seaming tape scrim, keeping the trowel at a 45° angle.
5. Only apply as much adhesive as can be installed within 30 minutes.
6. Install turf in strict accordance with the turf manufacturer's written instructions.
7. 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

1. Clean any adhesive smudges from the turf surface with a white cloth and mineral spirits while the adhesive is still fresh/wet.
2. Clean tools with mineral spirits while the adhesive is still fresh/wet.

Note: *Ultrabond Turf PU 1K* is extremely difficult to remove when cured.

PROTECTION

- Protect from light traffic for at least 6 hours. Protect from heavy traffic for at least 24 hours.
- Protect from rain/water exposure and freezing conditions for 12 hours after installation.
- For synthetic turf installations, do not put into service until 7 days after installation or per other written instructions from turf manufacturer.

Product Performance Properties

Laboratory Tests	Results
Polymer type	Polyurethane
Percent solids	100%
VOCs	36 g per L
Color	Off-white
Shelf life	1 year when stored in original packaging at 73°F (23°C)
Storage conditions	50°F to 90°F (10°C to 32°C)
Flash point (Tag)	> 200°F (93°C)

Application Characteristics

Turf Seaming and Rubber Sports Flooring	Flash Time*	Working Time**	Set Time***
At 73°F (23°C) and 50% humidity	0 minutes	30 to 45 minutes	1 to 3 hours

* Flash time: Amount of time recommended for the adhesive to remain exposed to the air following application before the installation of floor covering.

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


*** Set time: The window of time when adjustments can still be made to the position of the floor covering without compromising the bond of the adhesive.

Note: Flash time, working time and set time vary based on temperature, humidity, substrate porosity, trowel size and jobsite conditions. For example, high heat and humidity will reduce working time and set time; low temperatures and humidity will extend working time and set time.

Packaging

Product Code	Description
99868	5 U.S. gals. (18,9 L)

Approximate Product Coverage†

Flooring Type	Typical Trowel	Coverage
Synthetic turf (direct bond or seaming scrim)	1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) 	Full spread: 30 to 40 sq. ft. per U.S. gal. (0,73 to 0,98 m² per L) Seaming scrim: 15 to 25 linear ft. per U.S. gal. (1,19 to 1,97 m per L)

† Trowel dimensions are depth/width/space. Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions, type of trowel used and setting practices.

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Refer to the MSDS for specific data related to VOCs, health and safety, and handling of product.

STATEMENT OF RESPONSIBILITY

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith.

ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.

We proudly support the following industry organizations:



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For the most current BEST-BACKED™ product data and warranty information, visit www.mapei.com.

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