



Ultrabond®

# Turf PU 1K

**Premium, Fast-Setting,  
Urethane Adhesive for  
Turf Seams**



## DESCRIPTION

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

## FEATURES AND BENEFITS

- Fast setting time
- Excellent handling characteristics and superior green strength
- Available in green. Also available in off-white (5 U.S. gals. or 18,9 L only).
- Exceeds FIFA standards for bond strength

## INDUSTRY STANDARDS AND APPROVALS

- Exceeds FIFA Joint Strength (EN 12228 and EN 13744) requirements

## WHERE TO USE

- Interior and exterior installations of synthetic turf
- 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 surface temperature is between 41°F and 95°F (5°C and 35°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 surfaces.

## SUITABLE SURFACES

- *Ultrabond Turf Tape* or manufacturer-recommended seaming tape
- 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 surfaces must be prepared in accordance with the manufacturer of the synthetic playing surface for the type of intended use and must comply with current regulations or standards.
- All surfaces must be structurally sound, dry, solid, stable, even, flat and smooth.
- Surface 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.

- Ready to use; no mixing is necessary.

## PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

### A. Seaming and Full-Spread Installations

1. Unroll and acclimate synthetic turf per the manufacturer's written instructions to allow for reduction of internal tensions caused by packaging and transport.
2. Select the appropriately notched trowel (see "Approximate Coverage" section).
3. Spread *Ultrabond Turf PU 1K* evenly over the seaming tape scrim or other suitable surface, keeping the trowel at a 45-degree angle.
4. Only apply as much *Ultrabond Turf PU 1K* as can be installed within 30 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.
7. If needed, place weight on the turf seams to ensure proper bonding.

### B. Repairs Using the Cartridge

1. Cut the knob of the *Ultrabond Turf PU 1K* cartridge.
2. Screw the nozzle tip to the cartridge.
3. Cut the nozzle tip to the desired opening size.
4. Pull back the synthetic turf in the area of the repair.
5. Apply *Ultrabond Turf PU 1K* in a zigzag pattern to cover most of the repair area.
6. Immediately place the turf into the freshly applied adhesive and place weight on the repair area to keep it secure during curing.

Note: Use for small repairs only. A light misting of water will speed up the curing time of *Ultrabond Turf PU 1K*, allowing quicker repairs.

### C. Repairs Using the Metal Tube

1. Unscrew the cap from the tube and puncture the seal.
2. Pull back the synthetic turf in the area of the repair.
3. Apply *Ultrabond Turf PU 1K* in a zigzag pattern to cover most of the repair area.
4. Immediately place the turf into the freshly applied adhesive and place weight on the repair area to keep it secure during curing.

Note: Use for small repairs only. A light misting of water will speed up the curing time of *Ultrabond Turf PU 1K*, allowing quicker repairs.

## CLEANUP

- Clean any adhesive smudges from the turf surface with a white cloth and mineral spirits while the adhesive is still fresh/wet. Clean tools with mineral spirits while the adhesive is still fresh/wet. *Ultrabond Turf PU 1K* is extremely difficult to remove when cured.

## PROTECTION

- Protect the installation from light traffic for at least 12 hours. Protect it from heavy traffic for at least 24 hours.
- Protect the installation from rain/water exposure and freezing conditions for 12 hours after installation.

## Product Performance Properties

Laboratory Tests	Results
Polymer type	Polyurethane
Solids content	100%
VOCs (Rule #1168 of California's SCAQMD)	4 g per L
Joint/bond strength	> 25 N per 100 mm
Flash point (Tag)	> 200°F (93°C)

## Shelf Life and Product Characteristics (before mixing)

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)

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 at 73°F (23°C) and 50% relative humidity

Flash time*	0 minutes
Working time**	30 to 45 minutes
Set time***	45 to 90 minutes

\* Flash time is the recommended amount of time for a freshly applied adhesive to remain exposed to the air following application 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.



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

Flash time, working time and set time vary based on temperature, humidity, surface porosity 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

Size	Available Colors
Metal tube: 12 U.S. oz. (355 mL)	Green
Plastic cartridge: 29 U.S. oz. (858 mL)	Green
Plastic pail: 1 U.S. gal. (3,79 L)	Green
Plastic pail: 5 U.S. gals. (18,9 L)	Green and off-white

## Approximate Coverage†

Usage	Coverage
Full spread	<p>With a 3/16" x 5/32" (4,5 x 4 mm) sawtooth trowel:</p>  <p>32 to 40 sq. ft. per U.S. gal. (0,78 to 0,98 m² per L)</p>
Seaming	<p>With a 3/16" x 5/32" (4,5 x 4 mm) sawtooth trowel:</p>  <p>160 to 200 linear ft. per 5 U.S. gals. (1,2 to 1,5 linear m per 18,9 L)</p>
Repair – Cartridge	<p>With a 1/4" (6 mm) bead</p> <p>About 88 linear ft. (26,8 linear m) per 29 U.S. oz. (858 mL) cartridge</p>
Repair – Metal tube	<p>With a 1/4" (6 mm) bead</p> <p>About 35 linear ft. (10,7 linear m) per 12 U.S. oz. (355 mL) metal tube</p>

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

Ultrabond<sup>®</sup>  
Turf PU-1K



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

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