



Ultrabond[®] Turf PU 2K

**Professional, 2-Component,
Fast-Set Urethane Turf
Seam Adhesive**



DESCRIPTION

Ultrabond Turf PU 2K 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. *Ultrabond Turf PU 2K* is particularly suited for use in areas of low ambient relative humidity and in cool temperatures. *Ultrabond Turf PU 2K* is colored green to blend in with most artificial turf products and cures within 2 to 4 hours to a tough durable bond. *Ultrabond Turf PU 2K* 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

- *Ultrabond Turf Tape* or manufacturer-recommended seaming scrim
- Concrete
- Existing cured asphalt pavement in good condition

Consult MAPEI's Technical Services Department 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, *Ultrabond Turf PU 2K* 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: *Ultrabond Turf PU 2K* is extremely difficult to remove when cured.
- Clean tools with mineral spirits while the adhesive is still fresh/wet.

PROTECTION

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

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 Ultrabond Turf PU 2K. 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)

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Approximate Coverage* – Direct Adhesive Bonding

Flooring Type	Typical Trowel	Coverage
Artificial turf, with heavily textured backing	 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 m ² per L) Seaming scrim: 15 to 25 linear ft. per U.S. gal. (1,19 to 1,97 m per L)
Artificial turf, with smooth back or attached cushion backing	 1/8" x 1/8" x 1/8" (3 x 3 x 3 mm)	85 to 95 sq. ft. per U.S. gal. (2,08 to 2,33 m ² 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.

Refer to the Safety Data Sheet for specific data related to health and safety as well as product handling.

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at

www.mapei.com. **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use,

and the user alone assumes all risks and liability. **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.**

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Edition Date: June 16, 2017
 PR: 6274 MKT: 17-1779

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

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