

# Ultrabond Turf PU 2K

Professional, Two-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 synthetic 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 synthetic turf products and cures within 2 to 4 hours to a tough, durable bond. *Ultrabond Turf PU 2K* provides seam strengths that exceed 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 synthetic turf

## INDUSTRY STANDARDS AND APPROVALS

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

## WHERE TO USE

- Interior and exterior synthetic 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
- Properly cured 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 synthetic 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.
- The substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residue, and any other substance or condition that may prevent or reduce adhesion.

## MIXING

Before product use, take appropriate safety precautions. 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(s) into Part A. (The large kit includes two Part B containers.) Place the cap back on the Part B container(s) and turn the container(s) 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.

## PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Synthetic 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” chart below).
3. Spread adhesive evenly over the substrate or seaming scrim, keeping the trowel at a 45-degree angle. There should be minimum overlap of 3" (7.5 cm) of adhesive contact to the turf backing on each side of the seam. The use of *Ultrabond Turf Glue Box* application tool is recommended when seaming.
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 of  $\geq 90\%$  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.

Note: For faster installation and curing times in colder weather, *Ultrabond Turf PU 2K Accelerator* may be used.

## CLEANUP

- Clean any adhesive smudges from the turf surface with a white cloth and *Ultrabond Urethane Cleaner* or mineral spirits while the adhesive is still fresh/wet. Note: *Ultrabond Turf PU 2K* is extremely difficult to remove when cured.
- Clean tools with *Ultrabond Urethane Cleaner* or 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.
- Protect the installation from rain/water exposure and freezing conditions for 24 hours after installation.

### Product Performance Properties

| Laboratory Tests   |  | Results        |
|--|--|----------------|
| Solids content   |  |                |
| Part A   |  | 100%           |
| Part B   |  | 100%           |
| VOC content (SCAQMD Rule 1168)                           |  | < 50 g per L   |
| Typical VOC content per SCAQMD Rule 1168 testing methods |  | 2 g per L      |
| Flash point (Tag)  |  | > 200°F (93°C) |

## Shelf Life and Product Characteristics

before mixing

|                    |   |
|--------------------|---|
|                    |   |
| Polymer type       | Polyurethane  |
| Shelf life         | 1 year when stored in original, unopened packaging at 73°F (23°C) |
| Storage conditions | 40°F to 90°F (4°C to 32°C)  |
| Color              |   |
| Part A             | Green   |
| Part B             | Amber   |
| 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 Properties

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

|                 |                  |
|-----------------|------------------|
|                 |                  |
| Flash time*     | 0 to 10 minutes  |
| Working time**  | 46 to 60 minutes |
| Setting time*** | 2 to 3 hours     |

\* 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.

\*\*\* Setting 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 setting time vary based on temperature, humidity, surface porosity and jobsite conditions. For example, high heat and humidity will reduce working time and setting time; low temperatures and humidity will extend working time and setting time.

## Packaging

| Size                       | Contents  |
|----------------------------|---|
| Kit: 2 U.S. gals. (7.57 L) | Part A: 1.74 U.S. gals. (6.59 L)<br>Part B: 0.26 U.S. gal. (0.98 L)       |
| Kit: 4 U.S. gals. (15.1 L) | Part A: 3.48 U.S. gals. (13.2 L)<br>Part B (x 2): 0.26 U.S. gal. (0.98 L) |

## Approximate Coverage<sup>†</sup> – Direct Adhesive Bonding

| Flooring Type  | Typical Trowel                                  | Coverage   |
|--|---|--|
| Synthetic turf, with heavily textured backing                | 1/4" x 1/4" x 1/4" (6 x 6 x 6 mm), square-notch | Full spread: 30 to 40 sq. ft. per U.S. gal. (0.73 to 0.98 m <sup>2</sup> per L)<br>Seaming scrim: 15 to 25 linear ft. per U.S. gal. (1.19 to 1.97 m per L) |
| Synthetic turf, with smooth back or attached cushion backing | 1/8" x 1/8" x 1/8" (3 x 3 x 3 mm), square-notch | 50 to 60 sq. ft. per U.S. gal. (1.22 to 1.47 m <sup>2</sup> per L)   |

<sup>†</sup> 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.

## ADDITIONAL INFORMATION

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

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact [sustainability-durabilite@mapei.com](mailto:sustainability-durabilite@mapei.com).

## WARNING

The test results shown in the TECHNICAL DATA table were obtained in compliance with test methods and curing cycles, if applicable, defined in the industry standards referenced on the Technical Data Sheet. Please note that the use of test procedures or methods other than those indicated in the table could lead to different values and that, in such cases, any liability of our company is excluded.

#### 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 nor 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](http://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.**

## CONTACT INFORMATION

### MAPEI Headquarters of North America

1144 East Newport Center Drive  
Deerfield Beach, Florida 33442  
1-888-US-MAPEI (1-888-876-2734) / (954) 246-8888

### Technical Services

U.S. and Puerto Rico:  
Flooring: 1-800-992-6273  
Concrete and heavy construction: 1-888-365-0614  
Canada:  
1-800-361-9309

### Customer Service

1-800-42-MAPEI (1-800-426-2734)

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For the most current product data and BEST-BACKED<sup>SM</sup> warranty information, visit [www.mapei.com](http://www.mapei.com).

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