



# Ultrabond<sup>®</sup> Turf PU 1K-LV

## Low-Viscosity, Fast-Setting, Urethane Adhesive for Turf Seams

### DESCRIPTION

*Ultrabond Turf PU 1K-LV* is a fast-setting, moisture-curing, polyurethane adhesive specifically designed for seaming and direct bonding of synthetic turf. The low-viscosity formula is ideal for landscaping installation and offers excellent weather resistance.

### FEATURES AND BENEFITS

- Low-viscosity for easy installation
- Fast setting time
- Excellent handling characteristics and superior green strength

### WHERE TO USE

- Interior and exterior installations of synthetic turf
- Commercial and residential landscaping applications of synthetic turf

### 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 SUBSTRATES

- *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 turf 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

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

- Ready to use; no mixing is necessary.

### PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Unroll and acclimate synthetic turf per the manufacturer's written instructions.



2. Spread *Ultrabond Turf PU 1K-LV* evenly over the seaming tape scrim or other suitable surface, keeping the trowel at a 45-degree angle.
3. Only apply as much *Ultrabond Turf PU 1K-LV* as can be installed within 30 minutes.
4. Install turf in strict accordance with the turf manufacturer's written instructions.
5. Periodically confirm adhesive transfer to the backing by lifting the turf material.
6. If needed, place weight on the turf seams to ensure proper bonding.

### **CLEANUP**

- Clean any adhesive smudges from the turf surface with a white cloth and MAPEI's *Ultrabond® Urethane Cleaner* while the adhesive is still fresh/wet. Clean tools with *Ultrabond Urethane Cleaner* while the adhesive is still fresh/wet. *Ultrabond Turf PU 1K-LV* 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%
Flash point	200°F (93°C)

## 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)

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 5 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	Color
Plastic jug: 1 U.S. gal. (3,79 L)	Green

## Approximate Coverage<sup>†</sup>

Installation Type	Typical Trowel	Coverage
Full spread	3/16" x 5/32" (4,5 x 4 mm) sawtooth trowel	32 to 40 sq. ft. per U.S. gal. (0,78 to 0,98 m <sup>2</sup> per L)
Seaming with 12" (30 cm) tape	3/16" x 5/32" (4,5 x 4 mm) sawtooth trowel	32 to 40 linear ft. per U.S. gal. (2,57 to 3,22 linear m per L)
Seaming with 6" (15 cm) tape	3/16" x 5/32" (4,5 x 4 mm) sawtooth trowel	68 to 80 linear ft. per U.S. gal. (5,14 to 6,44 linear m per L)

<sup>†</sup> 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 Turf PU 1K-LV



Refer to the SDS 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](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.**

We proudly support the following industry organizations:



### 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

1-800-992-6273 (U.S. and Puerto Rico)  
1-800-361-9309 (Canada)

### Customer Service

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

### Services in Mexico

0-1-800-MX-MAPEI (0-1-800-696-2734)

**Edition Date:** February 28, 2018

PR: 8705 MKT: 18-1065

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

All Rights Reserved. Printed in the USA. © 2018 MAPEI Corporation.