

Ultrabond Turf MS

Premium, Hybrid, Synthetic Turf Adhesive



DESCRIPTION

Ultrabond® Turf MS is a high-tack, fast-setting, one-component, modified-silane hybrid adhesive designed for installation of high-performance synthetic sports turf. *Ultrabond Turf MS* meets FIFA bond requirements and is suitable for installation in most weather conditions. *Ultrabond Turf MS* is colored green to blend in with most synthetic turf products.

FEATURES AND BENEFITS

- Fast setting time
- High initial tack
- No swell potential
- Suitable for trowel and *Ultrabond Turf Glue Box* applications

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 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

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

SURFACE PREPARATION

- All surfaces must be prepared in accordance with the manufacturer of the synthetic sports 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, allowing for a reduction of internal tensions caused by packaging and transport.
2. Select the appropriately notched trowel or via *Ultrabond Turf Glue Box* (see the "Approximate Coverage" chart below).
3. Spread *Ultrabond Turf MS* 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 MS* as can be installed within 30 minutes.
5. Install turf in strict accordance with the turf manufacturer's written instructions.
6. Periodically confirm adhesive transfer to the backing by lifting the turf material.
7. 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 MS* 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 | Modified silane polyether |
| Solids content | 100% |
| VOCs (Rule #1168 of California's SCAQMD) | 13 g per L |
| Joint/bond strength per FIFA EN 13744 & EN 12228, Method 2 | > 75 N per 100 mm |
| Flash point (Tag) | > 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) |

Application Properties

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

| | |
|-----------------|-------------------|
| Flash time* | 0 minutes |
| Working time** | 45 to 90 minutes |
| Setting time*** | 90 to 120 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 synthetic turf.

**Working time is the maximum amount of time that an adhesive can remain exposed to the air and still effectively bond to the synthetic turf.



*** Setting time is the window of time when adjustments can still be made to the position of the synthetic turf 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 can reduce working time and setting time; low temperatures and humidity can extend working time and setting time.

Packaging

| Size | Color |
|-------------------------------------|-------|
| Plastic pail: 4 U.S. gals. (15.1 L) | Green |

Approximate Coverage†

| 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) square-notch or <i>Ultrabond Turf Glue Box</i> | <u>Full spread:</u> 30 to 40 sq. ft. per U.S. gal. (0.73 to 0.98 m ² per L) <u>Seaming scrim:</u> 12" (30 cm) wide, with a length of 15 to 25 feet 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) U-notch | 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.

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.

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. **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

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Edition Date: April 18, 2024 MK 3000410 (23-1126)

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

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