

Ultrabond Turf HMA

Hot-Melt Adhesive for Synthetic Turf

FOR PROFESSIONAL USE ONLY

DESCRIPTION

Ultrabond® Turf HMA is a hot-melt adhesive specifically formulated for the installation of synthetic turf using industrial hot-melt applicator machines. *Ultrabond Turf HMA* offers a permanent, fast and efficient method for seaming, inlay and quick repairs of synthetic turf installation in a variety of weather conditions.

FEATURES AND BENEFITS

- High-tack, fast-curing formulation
- Excellent weather resistance
- Applied via bead or spray
- Exceeds FIFA standards for bond strength

WHERE TO USE

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

LIMITATIONS

- Do not install over substrates containing asbestos.
- Do not install in areas not recommended by the synthetic turf manufacturer.
- Do not install in areas with known hydrostatic moisture, osmotic blistering or alkali silica reaction conditions.
- Do not install if the substrate is wet or if rain is expected with 12 hours of the installation.

- Use only when the substrate temperature is between 32°F and 130°F (0°C and 54°C).
- Do not use as a leveling, patching or subfloor repair material.

SUITABLE SUBSTRATES

- *Ultrabond Landscape Tape*, *Ultrabond Turf Tape* or another manufacturer-recommended seaming tape
- Manufacturer-recommended synthetic turf backings
- Other approved wood underlayments (per manufacturer recommendations)
- Fully cured cement-based, exterior-rated patching and repair compounds
- Exterior-grade and marine-grade plywood as well as pressure-treated lumber
- Fully cured concrete at least 28 days old and installed according to ASTM F710
- Fully cured asphaltic surfaces

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's written instructions and comply with all current standards and regulations.
- 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 residues, and any other substance or condition that may prevent or reduce adhesion. If the surface contains these substances, they must be mechanically removed; do not use chemical means.

MIXING

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

- Ready to use, with no mixing necessary

PRODUCT APPLICATION

Read the synthetic turf manufacturer's guidelines for acclimation requirements and complete installation instructions before installation. Always ensure that proper personal protective equipment (PPE) is used when working with hot adhesive to prevent the potential of burns.

1. Unroll and acclimate synthetic turf per the manufacturer's written instructions, to allow for reductions of internal tensions caused by packaging and transport.
2. Insert *Ultrabond Turf HMA* bag(s) of adhesive pellets into a hot-melt applicator and turn on applicator heating element to heat the system to a temperature between 300°F and 385°F (149°C and 196°C).
3. Once the system is fully heated, extrude or spray *Ultrabond Turf HMA* using the hot-melt applicator.
4. While the adhesive is still hot, install the synthetic turf in strict accordance with the synthetic turf manufacturer's written instructions.

CLEANUP

- While the adhesive is still hot, promptly clean any adhesive smudges from the turf or tools with a white cloth. *Ultrabond Turf HMA* is extremely difficult to remove when cured and can only be removed using mechanical means.

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
Viscosity – ASTM D4440	4,500 to 6,500 cps at 350°F (177°C)
Melting point – ASTM D4440	180°F to 187°F (82°C to 86°C)
Joint/bond strength	> 75 N per 100 mm
VOCs (Rule #1168 of California's SCAQMD)	0 g per L

Shelf Life and Product Characteristics

Product chemistry	Rubber-based hot melt
Shelf life	2 years when stored in original, unopened packaging at 73°F (23°C)
Storage conditions	Store at 50°F to 90°F (10°C to 32°C)
Consistency	Solid at room temperature
Color	Yellow
Temperature range for hot-melt applicator	300°F to 385°F (149°C to 196°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*	Working Time**	Setting Time***
0 minutes	0 to 5 minutes	5 to 10 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 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.

Note: Flash time, working time and setting time vary based on temperature, humidity, substrate porosity, application quantity and jobsite conditions.

Packaging

Size
Case: 48 lbs. (21.8 kg)

RELATED DOCUMENTS

- Reference guide: "Surface preparation requirements" for floor-covering installation systems[†]

[†] At www.mapei.com

ADDITIONAL INFORMATION

Refer to the 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_USA@mapei.com (USA) or sustainability-durabilite@mapei.com (Canada).

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. **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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For the most current product data and BEST-BACKEDSM warranty information,
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