ULTRABOND TURF PU 1K LC

One-component polyurethane adhesive for bonding decorative synthetic turf





WHERE TO USE

Bonding seaming tape jointing strips between synthetic turf rolls (e.g. **Ultrabond Turf Tape 100** or **Ultrabond Turf Tape 300**), both indoors and outdoors.

TECHNICAL CHARACTERISTICS

Ultrabond Turf PU 1K LC is a moisture-curing polyurethane resin-based adhesive, produced according to technology developed in MAPEI laboratories.

Ultrabond Turf PU 1K LC has the following characteristics:

- Ready-to-use, one-component, does not require the addition of hardener and subsequent mixing. Leftover quantities, when stored properly, can be reused for subsequent applications.
- Easy to apply, even at low temperatures.
- Has excellent ridge stability, even with high temperatures.
- The adhesive's minimal expansion does not affect the installation.
- Solvent-free.

RECOMMENDATIONS

- Do not apply **Ultrabond Turf PU 1K LC** if the temperature is lower than 0°C or higher than +35°C.
- The application in very dry weather conditions or at low temperatures (between 0°C and +10°C) requires longer curing times.
- Do not use on asphalt surfaces.

APPLICATION PROCEDURE

Preparation of the substrate

Substrates must be prepared in accordance with the requirements for constructing synthetic turf fields, based on the intended use and in compliance with current regulations and standards.

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Acclimatization

Synthetic turf rolls should be unrolled several hours prior to installation and laid out loosely to relieve stresses induced by packing.

Spreading the adhesive

Apply **Ultrabond Turf PU 1K LC** on **Ultrabond Turf Tape 100** or **Ultrabond Turf Tape 300** using a notched trowel No. 3 or 4 MAPEI.

Spread the adhesive evenly over the entire surface of the seaming tape.

The open time of the product is approximately 90 minutes under normal temperature conditions (+23°C).

TURF ROLL INSTALLATION

Follow the instructions provided by the synthetic turf manufacturer when installing the product.

The rolls should be applied over the seaming tape **Ultrabond Turf Tape 100** or **Ultrabond Turf Tape 300** coated with fresh **Ultrabond Turf Tape PU 1K LC** within 90 min (at +23°C) to ensure full contact.

If necessary, place weights on the sheets along the joints to prevent irregularities in flatness.

READY FOR USE

Synthetic turf surfaces installed according to these instructions are ready for use after approximately 7 days.

CONSUMPTION

Consumption: 0.23 – 0.26 kg per metre of 30 cm wide seaming tape using a notched trowel No. 3 or 4.

COLOUR

Ultrabond Turf PU 1K LC is available in green.

PACKAGING

15 and 7 kg in aluminium bags contained in plastic bucket.

STORAGE

Ultrabond Turf PU 1K LC is stable for at least 12 months if stored in its original closed containers in a dry place.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website www.mapei.com.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY	
Consistency:	creamy paste
Colour:	green
Density:	1.40 g/cm³
Dry solids content:	100%
Brookfield viscosity:	31,000 ± 5,000 mPa·s (+23°C, rotor 7.50 RPM)

APPLICATION DATA (at +23°C and 50% R.H.)	
Recommended application temperature:	from +0°C to +35°C
Open time (skin formation):	60 minutes
Set to foot traffic:	approx. 12 hours
Ready for use:	after 7 days

FINAL PERFORMANCE	
Shore A hardness (DIN 53505) (after 7 days at +23°C + 14 days at 50°C):	60
Elongation at break (DIN 53504) (after 7 days at +50°C):	100%
Adhesion Ultrabond Turf Tape 100-synthetic turf [shear test according to EN 12228 (FIFA requirements)]:	▪ 1250 N (after 4 days at +23°C) ▪ 1400 N (after 4 days at +23°C + 14 days at +70°C in H_2O)
Service temperature:	from -30°C to +80°C

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application.

Please refer to the current version of the Technical Data Sheet, available from our website www.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 or replace requirements per the TDS in force at the

time of the MAPEI product installation.

The most up-to-date TDS can be downloaded from our website www.mapei.com. www.mapei.com.

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

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