



**MAPEI**

# Ultrabond Turf PU 2K



**Two-component,  
solvent and water-free  
polyurethane adhesive  
for bonding jointing  
strips between panels of  
synthetic grass sheets**



## WHERE TO USE

Bonding jointing strips between synthetic grass sheets, both indoors and outdoors (e.g. **Ultrabond Turf Tape 100**).

## TECHNICAL CHARACTERISTICS

**Ultrabond Turf PU 2K** is a two-component, solvent and water-free polyurethane adhesive. The two part component consist of component A, a thick paste, and component B, a fluid hardener. The mixing ratio between the two components is 90:10 (9:1).

When the two components are mixed together, a uniform coloured paste which is easy to apply using a notched trowel is obtained, characterised by excellent rib formation.

It is particularly recommended for those users who are allergic to epoxy or epoxy-polyurethane products. In the winter, it works better than epoxy-polyurethane products, which set slower at low temperatures.

After hardening (24 hours at ambient temperature), which takes place due to chemical reaction and is without shrinkage, **Ultrabond Turf PU 2K** becomes a tough film with high adhesion properties to any kind of support material.

When used for bonding **Ultrabond Turf Tape 100**, pitches which meet FIFA Standards may be obtained.

## RECOMMENDATIONS

- Do not use **Ultrabond Turf PU 2K** at temperatures less than 0°C. Where there are applications at high temperatures (higher than +35°C), the pot life of **Ultrabond Turf PU 2K** may be greatly reduced. Before mixing store component B at temperatures higher than +5°C.
- Only mix complete kits, mixing only partial quantities requires considerable accuracy when weighing the two components.

## APPLICATION PROCEDURE

### Preparation of the substrate

Substrates must be prepared according to instructions for the preparation of synthetic playing surfaces according to the type of use foreseen, and according to current regulations and standards.

### Acclimatisation

The single sheets must be unrolled a few hours before starting installation, and must be spread out to allow internal tension caused by the packaging to be reduced.

### Mixing

The two components which make up **Ultrabond Turf PU 2K** are contained in pre-dosed plastic containers.

- component A: 90 parts by weight;
- component B: 10 parts by weight.



TECHNICAL DATA (typical values)		
PRODUCT IDENTITY		
	component A	component B
<b>Consistency:</b>	thick paste	fluid liquid
<b>Colour:</b>	green/red	brown
<b>Density (g/cm<sup>3</sup>):</b>	1.65 ± 0.05	1.2 ± 0.01
<b>Dry solids content (%):</b>	100	100
<b>Brookfield viscosity (mPa·s):</b>	60,000 ± 10,000 (rotor F - 50 RPM)	20 ± 1 (rotor 1 - 50 RPM)
<b>Storage:</b>	<b>Ultrabond Turf PU 2K</b> remains stable for at least 12 months if stored in its original, sealed containers	
<b>Hazard classification according to EC 1999/45:</b>	none	harmful
	Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packaging and Safety Data Sheet	
<b>EMICODE:</b>	EC1 R - very low emission	
<b>Customs class:</b>	3506 91 00	
APPLICATION DATA (at +23°C and 50% R.H.)		
<b>Mixing ratio:</b>	component A : component B = 90 : 10	
<b>Brookfield viscosity of mix (mPa·s):</b>	25,000 ± 5,000 (rotor 7 - 50 RPM)	
<b>Density of mix (g/cm<sup>3</sup>):</b>	1.60 ± 0.05	
<b>Pot life of mix:</b>	approx. 60 minutes	
<b>Recommended application temperature range:</b>	from +0°C to +30°C	
<b>Open time:</b>	70-80 minutes	
<b>Start setting time:</b>	approximately 3 hours	
<b>End of setting time:</b>	approximately 4 hours	
<b>Set to light foot traffic:</b>	after 12-24 hours	
<b>Ready for use:</b>	7 days	
FINAL PERFORMANCE		
<b>Tensile bond between Ultrabond Turf Tape 100 and synthetic grass (EN 12228) (N):</b>	> 1,500	

If the ratio is modified, correct curing of the product will be impeded.  
Mixing must be carried out using a low-speed mechanical mixer, until a smooth paste with a uniform colour is obtained.  
The setting time and pot life of the product depend on the ambient temperature at the moment of application. The chemical reaction is too slow if the temperature is less than 0°C and application is not recommended.

### Spreading the adhesive

Apply **Ultrabond Turf PU 2K** on the jointing strips of **Ultrabond Turf Tape 100** using a No. 3 or No. 4 MAPEI notched trowel. Spread the adhesive evenly over the entire surface of the jointing strips. The open time of the product is approximately 70-80 minutes under normal temperature conditions (+23°C).

### LAYING THE SHEETS

Follow the indications given by the manufacturer of the synthetic grass sheets when laying the product. The sheets must be fixed along the jointing strips within 70-80 minutes from application of **Ultrabond Turf PU 1K** at +23°C while it is still fresh, in order to guarantee full contact. If required, place weights along the joints to avoid irregularities in flatness.

### READY FOR USE

The sheets are ready for service after approximately 7 days if laid as described above.

### CONSUMPTION

Approximately 0.4-0.5 kg per metre of 40 cm-wide jointing strip (5 kg of product for 10 linear metres).

### COLOUR

**Ultrabond Turf PU 2K** is available in green and red.

### PACKAGING

10 kg kits.

### STORAGE

**Ultrabond Turf PU 2K** remains stable for at least 12 months if stored in its original, sealed containers under normal conditions.

Keep **Ultrabond Turf PU 2K** away from freezing conditions during transport and storage. Do not expose it to temperatures lower than +5°C for long periods.

### SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Component B of **Ultrabond Turf PU 2K** irritates if it comes into contact with the eyes or skin. If it comes into contact repeatedly with the skin, it may cause rashes in people allergic to iso-cyanates. Avoid contact with the skin and eyes, and always wear protective gloves and goggles when laying and preparing the product. Only apply the product in well-ventilated areas. If used at temperatures above +60°C, component B may become harmful and irritating if inhaled. Seek medical attention in case of giddiness or fainting. For further and complete information about a safety use of our product please refer to our latest version of the Material Safety Data Sheet.

FOR PROFESSIONAL USE.

### 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: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.*

Please refer to the current version of the **Technical Data Sheet**, available from our web site [www.mapei.com](http://www.mapei.com)



This symbol is used to identify Mapei products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gesellschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.



**Our Commitment To The Environment**  
More than 150 MAPEI products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.

**All relevant references for the product are available upon request and from [www.mapei.com](http://www.mapei.com)**



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