

Ultrabond Turf EP 2K

**Two-component
epoxy-polyurethane
adhesive for bonding
synthetic grass
surfaces**



WHERE TO USE

Bonding jointing strips between adjacent rolls of synthetic grass in both indoor and outdoor situations (e.g. **Ultrabond Turf Tape 100**).

TECHNICAL CHARACTERISTICS

Ultrabond Turf EP 2K is a two-component adhesive, consisting of an epoxy-polyurethane polymer, component A, and a fluid catalyser, component B.

When the two components are mixed together, a uniform coloured paste is obtained that is easy to apply using a notched trowel, and which is characterised by its excellent hold along a straight line.

Ultrabond Turf EP 2K cures in 24 hours (at about +20°C) without shrinkage, to become a tough film with high adhesion properties on 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 EP 2K** if the temperature is lower than +10°C or higher than +30°C.

- Only catalyse complete kits, fast mixing requires considerable accuracy when weighing the two components.

APPLICATION PROCEDURE

Preparation of the substrate

Substrates for synthetic playing surfaces must be prepared in accordance with the manufacturers instructions and the type of use foreseen and must comply with current regulations and Standards.

Acclimatisation

The single sheets must be unrolled a few hours before starting laying operations, 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 EP 2K** are contained in pre-dosed plastic containers.

- component A: 94 parts in weight;
- component B: 6 parts in weight.

If the ratio is modified, through part mixing 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 temperature.

TECHNICAL DATA (typical values)		
PRODUCT IDENTITY		
	component A	component B
Consistency:	thick paste	fluid liquid
Colour:	green	transparent
Density (g/cm³):	1.62	0.98
Dry solids content (%):	97	100
Brookfield viscosity (mPa·s):	55,000 (# 7 - 50 RPM)	1,000 (# 2 - 20 RPM)
Storage:	24 months in its original, unopened packaging	
Hazard classification according to EC 1999/45:	irritant corrosive Before using refer to the “Safety instructions for preparation and application” paragraph and the information on the packing and Safety Data Sheet	
Customs class:	3909 50 00	
APPLICATION DATA (at +23°C and 50% R.H.)		
Mixing ratio:	component A : component B = 94 : 6	
Brooksfield viscosity of mix (mPa·s):	30,000 (# 7 - 50 RPM)	
Density of the mix (kg/m³):	1,510	
Pot life of mix:	45 min	
Recommended application temperature range:	from +10°C to +30°C	
Open time:	1 h	
Start setting time:	6 h	
Final setting time:	7 h	
Set to light foot traffic:	after 12-24 h	
Ready for use:	after 7 days	
FINAL PERFORMANCES		
Tensile bonding between Ultrabond Tape 100 and synthetic grass (EN 12228) (N):	> 1,500	

If the temperature is lower than +10°C, application is not recommended as the chemical reaction is too slow.

Spreading the adhesive

Apply **Ultrabond Turf EP 2K** to **Ultrabond Tape 100** using a No. 3 or No. 4 MAPEI notched trowel. Spread the adhesive evenly along the entire surface of the jointing strips.

The open time of the product is approximately 1 hour under normal temperature conditions (+23°C).

LAYING THE PANELS

Follow the indications given by the manufacturer of the synthetic grass panels when laying the product. The panels must be applied along the jointing strips within 1 hour of spreading on the layer of **Ultrabond Turf EP 2K** at +23°C, in order to guarantee full contact.

If required, place weights along the joints to avoid irregularities in flatness.

READY FOR USE

The panels are ready for use after approximately 24 hours if laid as described above.

CONSUMPTION

Approximately 0.4-0.5 kg per metre of 40 cm-wide jointing strip.

COLOUR

Ultrabond Turf EP 2K is available in green.

PACKAGING

10 kg units.

STORAGE

Ultrabond Turf EP 2K remains stable for at least 24 months if stored in its original, sealed containers.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Component A of **Ultrabond Turf EP 2K** can irritate if it comes into direct contact with the eyes or skin. The product contains epoxy resin with a low molecular weight which may provoke rashes in conjunction with other epoxy compounds.

Component B of **Ultrabond Turf EP 2K** is harmful if swallowed, inhaled or if it comes repeatedly into contact with the skin for long periods. In the latter case, it may burn the skin and cause rashes. When applying the product, therefore, avoid contact with the skin by using protective gloves and clothing. If the product comes into contact with the skin, wash thoroughly with plenty of soap and water and, if a rash appears, seek medical attention.

We recommend applying the product in well-ventilated areas only.

Ultrabond Turf EP 2K is hazardous for aquatic life. Dispose in accordance with local regulations and avoid contamination of water courses.

For further and complete information about a safety use of our product please refer to our latest version of the Material Safety Data Sheet.

PRODUCT 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

**All relevant references
for the product are available
upon request and from
www.mapei.com**



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Turf EP 2K**



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