

# ULTRABOND SPORT

Two-component, polyurethane adhesive for indoor and outdoor installation of rubber mats and synthetic turf and to level off hollows and recovering cracks on concrete and asphalt substrates



ESPACIO DEPORTIVO

## DESCRIPTION

**Ultrabond Sport** is a two-component, polyurethane adhesive specifically formulated for the installation of **Mapecomfort R** and **Mapecomfort PU** rubber mats on asphalt and concrete substrates, for filling dips (up to 1.00 cm) and cracks on existing concrete and asphalt flooring and for bonding synthetic turf sports surfaces.

## WHERE TO USE

- Indoor and outdoor installation of sports surfaces from **Mapecomfort R** and **Mapecomfort PU** ranges on concrete and asphalt substrates, through total adhesion bonding before final covering application.
- Localised filling of dips up to 1 cm deep, to level off the flatness of the bituminous surfaces and for subsequent application of **Mapecoat TNS** resin systems.
- Indoor and outdoor installation of synthetic turf through bonding of seaming tapes from **Ultrabond Turf** range (such as **Ultrabond Turf Tape 100** or **Ultrabond Turf Tape 300**).
- Installation of synthetic turf for sports with high bio-mechanical requirements, such as shock pads, elastic layers etc, to be installed at the base of the system.

## TECHNICAL CHARACTERISTICS

**Ultrabond Sport** is a pure polyurethane adhesive, made up of two components: part A, a thick paste and part B, hardener with fluid liquid consistency. The pre-dosed quantities of the two components in each container facilitate the correct mixing of the product; a paste with uniform colour is obtained and easily applied manually using a squeegee or a notched trowel.

The special rheology in combination with **Ultrabond Sport** controlled viscosity facilitates the spreading of the adhesive on the entire area, allowing faster application by standing and using a squeegee.

The special formulation of **Ultrabond Sport** makes the hardened adhesive highly resistant to tearing and pull off.

# APPLICATION PROCEDURE

## Preparation of the substrate

Before applying **Ultrabond Sport** the substrate must be dry, clean and free from dust, dirt, oil, grease, wax, old detaching coating residues and from any other substance or condition which could compromise or reduce the adhesion of the product. Also, the mechanical properties of the substrate must be suitable for the type of use.

### Concrete substrates

The residual moisture of the substrate must not be higher than 3% and there must be no rising damp. The surface of the floor to be treated must be prepared with a suitable mechanical process (e.g. shot-blasting or grinding with a diamond disc) to remove all traces of dirt, cement laitance and crumbling or detached portions, and to make the surface slightly rough and absorbent. Before applying the products, thoroughly remove all dust on the surface with a vacuum cleaner.

As an alternative to the mechanical treatment described above, in case of smooth and low-absorbency surfaces, rinse with a solution of clean water and 5-10% **UltraCare HD Cleaner**. Spread the solution on the whole surface using a brush or a rotating cleaning machine and then rinse again with plenty of water (for further information please refer to **UltraCare HD Cleaner** Technical Data Sheet).

### Bituminous substrates

If cracks or fissures are present, they must be filled and repaired using **Ultrabond Sport**, **Mapeflex Xpress 80/400**, **Mapeflex Asphalt Crack Repair** or another adhesive from **Ultrabond Turf** range. In the presence of dips up to 2 cm deep, the use of a balanced mix of the above-mentioned products (**Ultrabond Sport**) and 15-20% by weight of dry silica sand **Quartz 0.5** or **Quartz 0.9** is recommended. Broadcast **Quartz 0.5** or **Quartz 0.9** on the surface while it is still fresh, making sure it is completely saturated. Badly damaged and worn asphalt must be removed and replaced by applying **Mape-Asphalt Repair 0/8**.

### For shockpads and synthetic turf

The substrate on which the artificial turf is to be applied must be prepared according to regulations and standards of respective sports federations, if present. The artificial turf is usually packed in rolls and for this reason it tends to warp, especially at low temperatures. It is recommended to unroll the turf a few hours before bonding with **Ultrabond Sport**, so that the warping is reduced and the artificial turf can regain its original shape.

**Ultrabond Sport** is used for bonding high-performance prefabricated rubber mats (e.g. **Mapecomfort R** for resin surfaces). It is usually packed in rolls and for this reason it tends to warp, especially at low temperatures. It is recommended to unroll the turf a few hours before bonding with **Ultrabond Sport**, so that the warping is reduced and the artificial turf can regain its original shape.



Use of **ULTRABOND SPORT** for bonding rubber mats, such as **Mapecomfort R** and **Mapecomfort PU**



Use of **ULTRABOND SPORT** for levelling out depressions in the playing area



Using **ULTRABOND SPORT** for crack sealing

## Mixing Ultrabond Sport

The two components of **Ultrabond Sport** are packed in pre-dosed containers (A+B) (90:10 parts by weight) at fixed quantities, so that a correct mixing ratio is granted. In fact, even a partial change of A and B components' dosage would compromise the correct reticulation and the final performances of the adhesive. Pour **Ultrabond Sport** component B into the container of component A and then mix with a low-speed mechanical stirrer. Be careful not to entrain air into the mix and stir until a paste with even texture and colour is obtained.

## Spreading Ultrabond Sport adhesive

Make sure surfaces to be bonded are clean, sound and free from standing water, oil, grease or any inconsistency that could affect adhesion. The adhesive can be applied in the presence of humidity, nonetheless any trace of standing water must be removed beforehand. For bonding rubber mats such as **Mapecomfort R** or **Mapecomfort PU**, apply **Ultrabond Sport** with a Mapei n.2 or n.3 notched squeegee.

For bonding synthetic turf seaming tapes use a n.3 or 4 MAPEI notched trowel (or B1/B2 TBK notched trowel). Make sure to distribute the adhesive evenly on the whole surface to be bonded and on the width of the tapes (such as **Ultrabond Turf Tape Pro** or **Ultrabond Turf Tape 300**). Open time of **Ultrabond Sport** in normal conditions (+23°C and 50% R.H.) is of approx. 40-45 minutes from the complete mixing of the two components. Setting and open time are heavily influenced by the surrounding temperature and humidity at the moment of application.

## Ready for use

Sports flooring installed using **Ultrabond Sport** are ready for use after approx. 7 days, depending on environmental conditions.

## RECOMMENDATIONS

- In case of application at high temperatures (over +35°C) the pot life of the mix may be considerably reduced.
- Do not dilute **Ultrabond Sport** with solvent-based or alcohol-based products.
- Store **Ultrabond Sport** component B at a temperature above +5°C for better performances.
- Mix only the whole amount of the containers. Partial mixing would require very high precision in weighing the two components and for this reason it is not recommended.
- Application at temperatures lower than 0°C is not recommended. For applications at temperatures between 0 and +5°C **Ultrabond Sport** can be used in combination with **Ultrabond Turf Catalyst**, a specific catalyst which increases the reaction speed at low temperatures. Dosage can vary according to the desired reaction time during installation.

## CLEANING

Clean tools and residues of the adhesive immediately while it is still fresh. Once hardened, the adhesive may only be removed mechanically.

## CONSUMPTION

Consumption varies with the type of support and the type of trowel used.

ASPHALT	
MAPEI trowel no. 3	1 – 1,5 kg/m <sup>2</sup>
Notch TKB B1/B2	1 – 1,5 kg/m <sup>2</sup>
CONCRETE	
MAPEI trowel no. 2	0,5 - 0,6 kg/m <sup>2</sup>
MAPEI trowel no. 3	0,6 – 0,8 kg/m <sup>2</sup>
Notch TKB B1/B2	0,5 - 0,8 kg/m <sup>2</sup>
SEAMING TAPE FOR SYNTHETIC TURF (30cm wide)	
MAPEI trowel no. 3 or 4	0,25 - 0,35 kg/m
Notch TKB B1/B2	0,25 - 0,35 kg/m

## PACKAGING

Ultrabond Sport is supplied in 15 and 25 kg plastic drums.

## STORAGE

Ultrabond Sport is stable for at least 12 months if stored in its original closed containers in a dry place. Protect Ultrabond Sport from frost both during transport and storage. Avoid prolonged exposure of the product at temperatures below +5°C and plan transport with controlled temperature units.

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website [www.mapei.com](http://www.mapei.com).

PRODUCT FOR PROFESSIONAL USE

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

	Component A	component B
Consistency:	thick paste	Fluid liquid
Colour:	Beige	Brown
Density:	1.57±0.05 g/cm <sup>3</sup>	1.20±0.01 g/cm <sup>3</sup>
Dry solids content:	100%	100%

### APPLICATION DATA (at +23°C and 50% R.H.)

Mixing ratio:	component A : component B = 90 : 10
Brookfield viscosity of mix:	26,000 ± 5,000 mPa·s (rotor 7 - 50 RPM)
Density of mix:	1.48 ± 0.05 g/cm <sup>3</sup>
Pot life of mix:	approx. 45 minutes
Application temperature:	from 0°C to +35°C
Open time:	45 minutes
Initial setting time:	approx. 2 hours
Set to foot traffic:	after 12-24 hours
Ready for use:	after 7 days

### FINAL PERFORMANCE

Tensile strenght:	5.6 MPa
Elongation:	40%
Tear strength:	1.9 N/mm

## 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](http://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](http://www.mapei.com).*

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