

Premium prefabricated polyurethane rubber pad for cushioned sport surfaces

## DESCRIPTION

**Mapecomfort R** is a high-performance prefabricated polyurethane rubber pad specifically designed for cushioned sport surfaces.

## WHERE TO USE

- Underlayment for comfortable cushioned sport surfaces, both indoor and outdoor.
- Refurbishment of existing courts, either concrete or asphalt, to improve comfort of play in combination with **Mapecoat TNS** coatings.

## TECHNICAL CHARACTERISTICS

**Mapecomfort R** tailor-made formulation is based on selected recycled rubber combined with high-quality polyurethane perfectly suited as enhanced performance underlayment for a wide variety of disciplines.

Adjusted density of **Mapecomfort R**, in combination with **Mapecoat TNS** additional coatings, provides both a consistent ball bounce and accurate ball response, leading to a superior comfort of play for frequent use of court. Superior features of **Mapecomfort R**, such as optimized elasticity, are of paramount importance for installations of both professional and amateur sport fields, aiming at reduction of player fatigue and injuries.

## RECOMMENDATIONS

- Prolonged exposure to sunlight should be avoided and limited to the application phase: **Mapecomfort R** shall be overcoated by additional **Mapecoat TNS** coatings, according to the designed system specifications.
- Substrates must be clean and free of dust, dirt, oil, grease, paint curing agents, concrete sealers, loosely bonded toppings, loose particles, old coating residues and any other substances or condition that may prevent or reduce adhesion of the matting adhesive.
- Concrete substrate shall be fully cured (at least 28 days and residual humidity lower than 3%), free from hydrostatic pressure, provide for a damp-proof membrane and sound for the intended use.
- In the presence of residual humidity in the concrete substrate of up to maximum 6%, it is advised to apply proper barriers such as the three-component epoxy-cement primer **Triblock P**. Bituminous substrates shall cure for at least 15 days.
- When applying **Mapecomfort R** on top of existing coatings, preliminary tests shall be carried out in order to ensure an appropriate adhesion is achieved between the layers.
- Do not apply when rain is imminent.
- Do not apply over damp or wet surfaces. In case of concrete substrate, do not apply if not fully cured: maximum residual humidity shall be 3%.
- The substrate temperature shall be between +10°C and +60°C.
- **Mapecomfort R** is not intended for sport surfaces subjected to heavy-duty equipment traffic.

## APPLICATION PROCEDURE

### Substrate preparation

Substrate must be clean and free of dust, dirt, oil, grease, paint curing agents, concrete sealers, loosely bonded toppings, loose particles, old coating residues and any other substances or condition that may prevent or reduce adhesion. The substrate strength must be adequate to the intended use and comply with Sport Associations and Federations guidelines, if any.

Any cracks present in the concrete substrate shall be repaired by an appropriate filling product such as the epoxy resin for injections, **Eporip**. If any area needs to be both restored and levelled, proceed by using cementitious mortars such as the **Mapegrout** range or **Planitop 400**.

In case of bituminous substrate, cracks shall be filled and repaired by using reactive products such as **Ultrabond Turf 2 Stars Pro**, **Ultrabond Turf 2 Stars** or **Ultrabond Turf PU 2K**. In presence of depressions up to 2 cm deep, a balanced mix of the above-mentioned products (**Ultrabond Turf**) and 15-20% on weight of silica sand **Quartz 0.9** is suggested. Heavily damaged and worn out asphalt shall be removed and replaced by a fresh lay, eventually with the ready-to-use reactive product **Mape-Asphalt Repair 0/8**. As the substrate preparation is completed, accurate vacuum of the entire area is required before **Mapecomfort R** installation.

## Preparation of the product

Unpack and unroll **Mapecomfort R** to allow acclimatization and relaxation of the sheets at least 24 before installation. **Mapecomfort R** is suited to both indoor and outdoor application but prolonged exposure to sunlight should be avoided and limited to the application phase only: **Mapecomfort R** shall be overcoated by additional **Mapecoat TNS** coatings.

## Application of the product

Position **Mapecomfort R** on one end of court then, starting on one side, run each roll out to achieve the full length of court, ensuring rolls are close to each other at edge before laying next mats. Cut off over-run at end and eventually use a chalk line at the start to ensure the first **Mapecomfort R** is laid perfectly straight.

Progressively fold half of first mat back onto itself to expose a run of base surface. Mix the selected adhesive of the **Ultrabond Turf** range in the presence of asphalt substrate and **Adesilex G19/Adesilex G20** in the presence of concrete substrate. Use a 2-3 mm notched trowel. Attention shall be paid to edges and to ensure that adhesive is applied evenly with no lumps, missed areas or uneven ridges. After adhesive application, fold the half of the first roll back onto adhesive area paying attention to avoid any ripples or bubbles. This operation shall be completed as quickly as possible and within the pot life of the selected adhesive. The same process shall be repeated for all mats and across full width of court until all rolls are laid.

**Mapecomfort R** shall be then rolled with either a carpet roller or a water filled roller, minimum weight 40 kg, after adhesive has partially set up but before curing starts (1-2 hours depending on temperature) to ensure removal of any bubbles or ridges. Sand off any split adhesive or ridges at joints and thoroughly vacuum clean surface before application of the priming product, **Mapecoat TNS Primer EPW**.

Weights on edges and some parts of joints to prevent the roll from curling up before adhesive cures. Curling or rippling can cause severe planarity problems in the mat once the adhesive has cured. Removal of bricks/pails is possible once the adhesive has set.

## PACKAGING

**Mapecomfort R** is supplied in rolls of various thicknesses.

## STORAGE AND WASTE DISPOSAL

**Mapecomfort R** is stable on ordinary working conditions. It is advised to store the product at the site in its original sealed packaging, horizontally and sheltered from direct exposure to sun. According to current norms regarding waste disposal, the product may be disposed of either in an authorized waste tip, a recycling plant or an authorized thermo-reducing plant.

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**Mapecomfort R** is an article and referring to the current European regulations (Reg. 1906/2007/EC - REACH) does not require the preparation of the Safety Data Sheet. During use it is recommended to wear protective gloves and goggles and follow the safety requirements of the workplace.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Product:	prefabricated polyurethane rubber pad
Colour:	black
Product features:	rolls, 20 m long, various thicknesses

	Mapecomfort R 4 mm	Mapecomfort R 5 mm	Mapecomfort R 6 mm	Mapecomfort R 7 mm	Mapecomfort R 8 mm	Mapecomfort R 9 mm
<b>Thickness (mm) EN 1849-2:</b>	4 ( $\pm 5\%$ )	5 ( $\pm 5\%$ )	6 ( $\pm 5\%$ )	7 ( $\pm 5\%$ )	8 ( $\pm 5\%$ )	9 ( $\pm 5\%$ )
<b>Length (m) EN 1848-2:</b>	20	20	20	20	20	20
<b>Width (m) EN 1848-2:</b>	1.5	1.5	1.5	1.5	1.5	1.5
<b>Mass per unit area (kg/m<sup>2</sup>) EN 1849-2:</b>	2.92 ( $\pm 5\%$ )	3.65 ( $\pm 5\%$ )	4.38 ( $\pm 5\%$ )	5.11 ( $\pm 5\%$ )	5.84 ( $\pm 5\%$ )	6.57 ( $\pm 5\%$ )
<b>Tensile strength (N/mm<sup>2</sup>) EN ISO 1798:</b>	$\geq 0.40$					
<b>Elongation at break (%) EN ISO 1798:</b>	$\geq 45$					
<b>Stress at 25% compression (N/mm<sup>2</sup>) DIN EN ISO 3386-2:</b>	$\geq 0.55$					

## 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 website [www.mapei.com](http://www.mapei.com)

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