

# Mapesoil 100

**HYDRAULIC, FIBRE-REINFORCED,  
POWDERED STABILISING AGENT**



# Mapesoil 100

## MAPEI TECHNOLOGY FOR MAKING SUBSTRATES FOR SYNTHETIC GRASS PLAYING SURFACES

The number of new playing fields installed using the latest generation of synthetic grass (for football, tennis, hockey, etc.) has increased significantly over the last decade, thanks to the considerable advantages which a synthetic surface offers compared with natural grass, as well as to the new systems.

MAPEI has a complete system of products available for installers of synthetic grass which offers a valid contribution to the high quality standards of new playing fields, from consolidating the substrate and bonding the synthetic grass, right up to the addition of the stabilising granules. MAPEI research has developed a ground stabilisation and consolidation system to make substrates for synthetic grass playing surfaces, **Mapesoil 100**, a formulation specifically used for playing surfaces.

### What is Mapesoil 100?

**Mapesoil 100** is a hydraulic, fibre-reinforced, powdered stabilising agent used to make substrates for synthetic grass playing fields through a process of stabilisation. The main areas of use for **Mapesoil 100** are:

- ↳ Substrates for synthetic grass playing surfaces (e.g. football pitches, etc.);
- ↳ Consolidating and stabilising substrates for existing playing surfaces (e.g. clay tennis courts);
- ↳ Cold-recycling substrates for playing surfaces (e.g. existing bitumen conglomerate substrates).

## Application phases for Mapesoil 100



Topsoiling of the old natural grass surface



Spreading on the **Mapesoil 100** with a sandblaster



### How does Mapesoil 100 work?

Through a process of consolidation, the use of **Mapesoil 100** allows the physical and mechanical properties of the material (aggregate and/or the ground) requiring stabilisation to be modified and improved, such as its workability, load-bearing capacity, durability and resistance to erosion.

- ↳ The time required to make the substrate for the playing surface is reduced, thanks to the movement of a lower amount of material;
- ↳ Only readily available tools normally used in agriculture are required (ploughs, harrows, stone buriers, sandblasters, etc.).

### What's new about Mapesoil 100?

Thanks to its special formulation developed and perfected in the Mapei research laboratories, with **Mapesoil 100**:

- ↳ A wide range of ground types may be treated;
- ↳ The material already present on site (in the case of existing pitches) or recycled material may be used, thus avoiding the use of virgin aggregates;
- ↳ The thickness treated compared with conventional stabilisation methods (lime or cement) may be reduced, but with the same performance;

### Where to use

**Mapesoil 100** is used for making playing fields and its main areas of use are:

- ↳ For making substrates for synthetic grass playing surfaces (e.g. football pitches);
- ↳ Consolidating and stabilising substrates for existing playing surfaces (e.g. clay tennis courts);
- ↳ Cold-recycling substrates for playing surfaces made using bitumen conglomerate.



Mixing in the **Mapesoil 100** with a plough



Wetting the ground



## How is Mapesoil 100 applied?

The application of **Mapesoil 100** consists of mixing it directly with the material to be treated and, if required, with water. The phases are as follows:

- Preparation and, where necessary, breaking up of the ground and topsoil;
- Spreading on the **Mapesoil 100**;
- Mixing in the **Mapesoil 100** and wetting the ground;
- Compacting;
- Levelling and shaping;
- Curing.

## Advantages

The use of **Mapesoil 100** technology for substrates for synthetic grass playing surfaces offers numerous technical and economic advantages, such as:

- ↳ Ease of application;
- ↳ The thickness treated may be considerably reduced (8 cm) with the same performance;
- ↳ The ground available on site and/or recycled material may be used, reducing movement of materials and energy consumption;
- ↳ The time required to make the substrate for the playing surface may be reduced;
- ↳ The durability of the treatment may be increased.



Levelling off

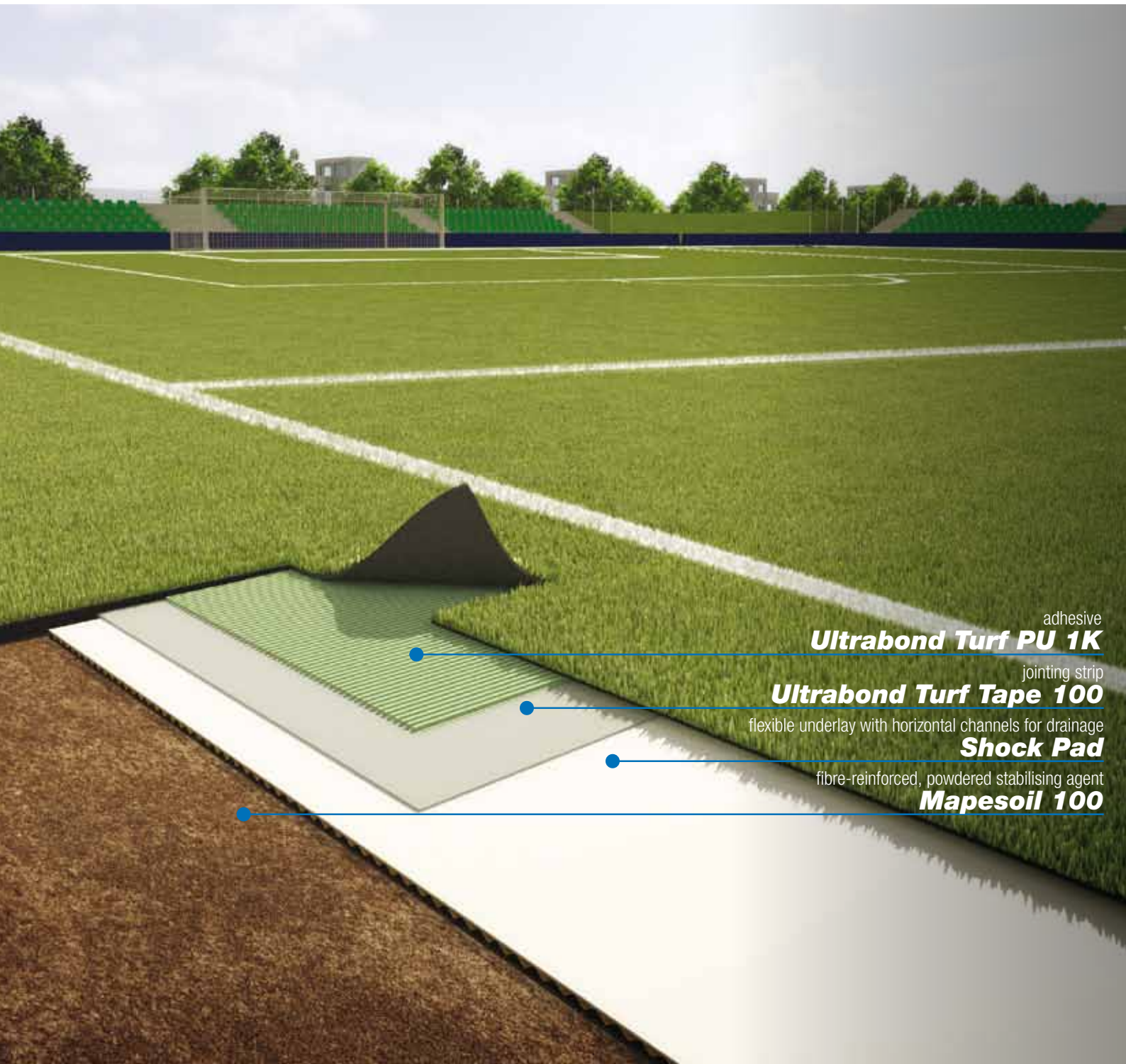


Compacting



Synthetic grass playing field with horizontal drainage made using **Mapesoil 100**

# System for laying synthetic grass playing fields



adhesive

**Ultrabond Turf PU 1K**

jointing strip

**Ultrabond Turf Tape 100**

flexible underlay with horizontal channels for drainage

**Shock Pad**

fibre-reinforced, powdered stabilising agent

**Mapesoil 100**



**HEADQUARTERS**

**MAPEI SpA**

Via Cafiero, 22 - 20158 Milan

Tel. +39-02-37673.1

Fax +39-02-37673.214

Internet: [www.mapei.com](http://www.mapei.com)

E-mail: [mapei@mapei.it](mailto:mapei@mapei.it)

