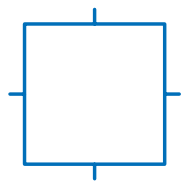




CFS SYSTEM SPORT

Mapei solutions for concrete sports flooring





Mapecrete System Sport system

Today, **sports flooring** sector requires, durable and perfectly flat surfaces. **CFS System S** is **Mapei's** proposal for concrete sports courts which allow sustainable, economical and easy construction. A system for all sports, both indoors and outdoors.

Advantages



PERFECTLY
FLAT



IMPROVED
DURABILITY



WITHOUT
REINFORCEMENT
MESH



REDUCED
CONSTRUCTION
TIME



NO MAINTENANCE
NEEDED



SUSTAINABLE
SOLUTION



Where to use

Mapecrete System Sport can be used for the creation of tennis, paddle, pickleball, basketball courts and multipurpose areas, both indoors and outdoors. The technology is also functional for the construction of ice rinks and skateparks. Whatever the sport, if practised on a court on a concrete slab, **Mapei** offers the **jointless solution**.



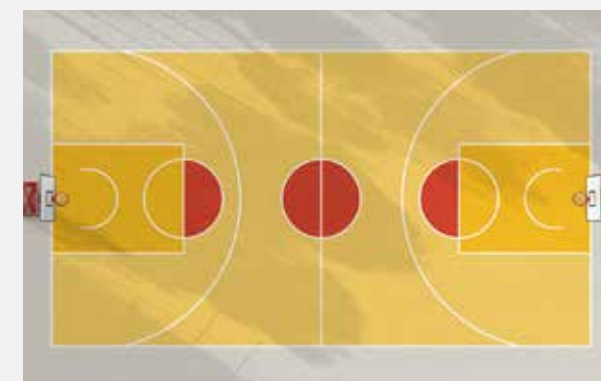
Pickleball court



Tennis court



Padel court



Basketball court



Mapei's DTC approach

DTC is the acronym that summarises CFS approach to concrete floors, a technical assistance service that supports the customer from the design to the construction site and which consists of three phases: **Design, Test, Control**.



Design

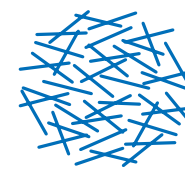
- Structural design with fiber-reinforced concretes.
- Shrinkage calculation for jointless solutions.
- Layout definition and joint verification.
- Calculation of CO₂ emissions saved.

Test

- Shrinkage and expansion laboratory test.
- Tenacity test.
- Mix design optimisation.

Control

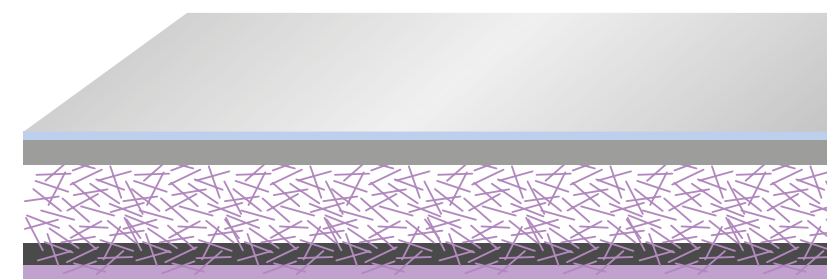
- Technical support for site preparation.
- On-site assistance with mobile concrete lab.
- Control of the characteristics of fresh concrete.



CFS System Sport components

CFS System Sport by **Mapei** makes it possible to create sports flooring without contraction joints through the use of:

- **synthetic fibers** instead of traditional metal reinforcements (**Mapecure SRA**);
- **controlled-shrinkage concrete** with the use of **Expancrete** jointless technology.



STRUCTURALLY
DESIGNED



PERFECTLY
FLAT



SUSTAINABLE



ADMIXTURES

Expancrete
Expansive
agent

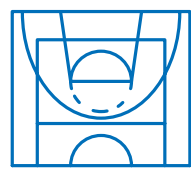
Mapecure SRA
Shrinkage reducing
admixture



REINFORCEMENT



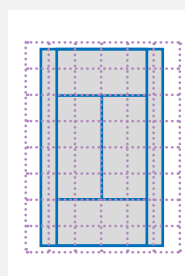
Synthetic fibers



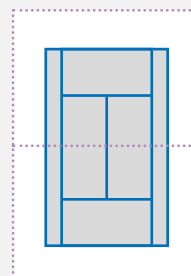
CFS System Sport a complete system



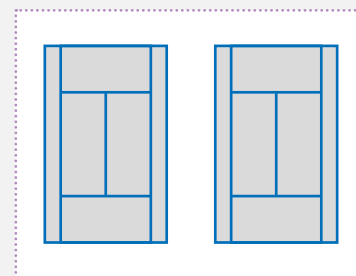
- | | | |
|---|--|---|
| 1 Substrate | 4 Dry-shake surface hardener Mapetop | 7 Top coating for sports surfaces
Mapecoat TNS |
| 2 Polyethylene membrane
Mapefoil DPM | 5 Lithium silicate treatment
Mapecrete Lithium Cure
+ anti-evaporation agent | |
| 3 Shrinkage reducing admixture
Mapecure SRA + expansive agent
Expancrete + Mapefibre synthetic macro-fibers | 6 Two-component epoxy primer
Mapecoat TNS Primer EPW | |



TRADITIONAL
SOLUTION



CFS SYSTEM SOLUTION
FOR SINGLE PLAY AREA



CFS SYSTEM SOLUTION
FOR DOUBLE PLAY AREA



CFS Virtual Designer APP

Mapei has developed the first APP for the **structural design of industrial floors**.

This tool offers countless technical solutions. It allows structural calculation of the floor with the use of **FRC** and **jointless solutions** using the **Mapecrete** system, completed by an LCA analysis of the total CO₂ emissions of the floor itself.

Thanks to an easy-to-use guided questionnaire, you are directed to the most suitable solutions in just a few steps according to the specific load configuration or intended use. Furthermore, in the Download area, you can find all **Mapei technical documentation**: TDS, DoP, and EPD.

CFS APP is also a real **fibers-community**, where you can share your project references with **Mapei** colleagues all over the world.

Contact us for a license.
www.mapei.com



EVERYTHING'S OK,
WITH **MAPEI**



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