

# Strengthening slabs with *Planitop HPC Floor*

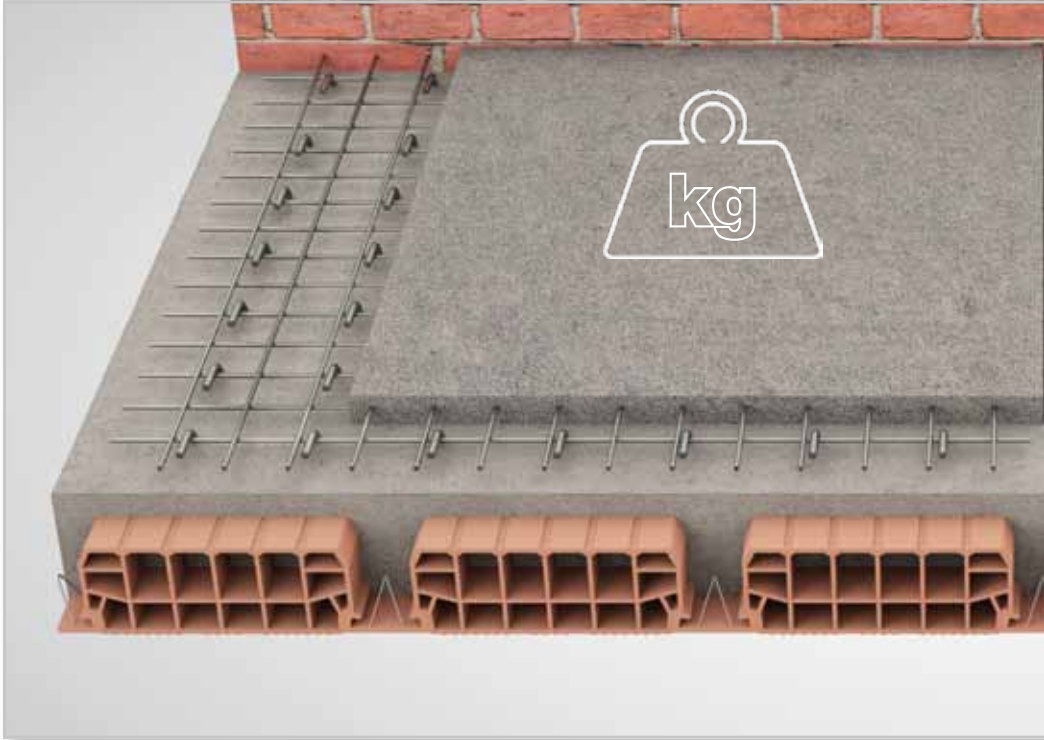


THE RAPID  
COMPACT SOLUTION.

just 1.5 ÷ 3 cm  
thick

*Strengthening slabs has never been so easy...  
...the revolution is called **Planitop HPC Floor!***

# *Traditional* system

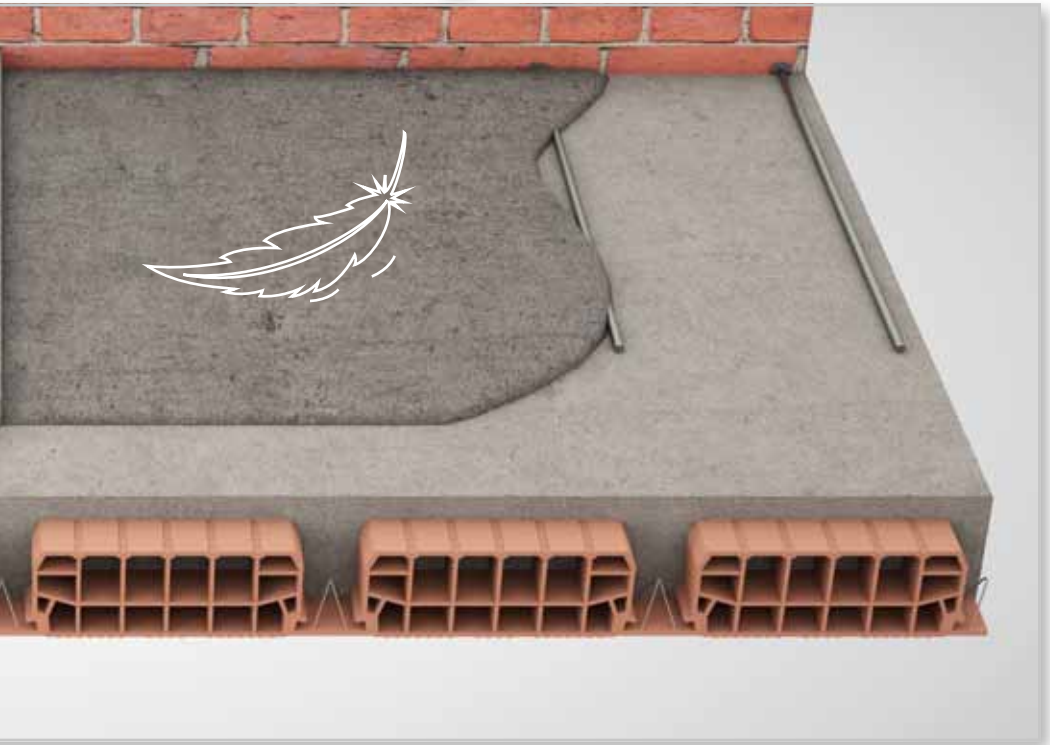


**YES** Steel connectors

At least 5 cm thick

**YES** Embedded electro-welded mesh

Lightweight system using  
***Planitop HPC Floor***



**NO** Steel connectors

More compact layer

**NO** Electro-welded mesh

## WHAT IS PLANITOP HPC FLOOR?



**PLANITOP HPC FLOOR** is a one-component, ultra-high-performance, free-flowing mortar designed to make structural screeds suitable for strengthening floors.

### WHY USE PLANITOP HPC FLOOR?

- one-component product;
- fibre-reinforced;
- supplied in 25 kg vacuum-packed polyethylene bags.

## COMPACT AND LIGHTWEIGHT STRENGTHENING SYSTEM

	Thickness applied	Density	Overall weight of intervention	
Traditional concrete:	5 [cm]	2400 [kg/m <sup>3</sup> ]	125 [kg/m <sup>2</sup> ]	-
Lightweight concrete:	5 [cm]	1400 [kg/m <sup>3</sup> ]	70 [kg/m <sup>2</sup> ]	- 44 %
<b>Planitop HPC Floor</b>	2.5 [cm]	2400 [kg/m <sup>3</sup> ]	60 [kg/m <sup>2</sup> ]	- 53 %

FOR ANY TYPE OF SLABS



BRICK-CEMENT



WOOD



STEEL-BRICK JOISTS

## INSTALLATION PHASES

1



Roughen the substrate

2



Anchor around the edges with steel bars

3



Consolidate the surface with **Primer 3296**

4



Mix product in a standard cement mixer

5



Pour over the outer surface

6



Level off the surface

## STRENGTHENING SLABS WITH PLANITOP HPC FLOOR





## FREE DESIGN SOFTWARE

**new**

Designing your own strengthening system for floors using Planitop HPC Floor is now possible thanks to “**MAPEI HPC FORMULA**”.

Simple, intuitive graphic interface for designers carrying out numerical evaluation of a strengthening intervention.

Developed by Mapei in collaboration with the “*Federico II*” University of Naples, Department of Structural Engineering (DIST).

To receive a copy write to:  
[composite@mapei.it](mailto:composite@mapei.it)



**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)