

# MAPEFIBRE FPC PLUS

Structural fibres made from cellulose and organic binders

## DESCRIPTION

**Mapefibre FPC Plus** are cellulose fibres for the production of special pre-bituminous conglomerate.

## WHERE TO USE

- Production of porous asphalt paving.
- Production of microsurfaces.
- Production of SMA.

## TECHNICAL CHARACTERISTICS

**Mapefibre FPC Plus** can be used to bridge the lack of homogeneity in the grain size, which is typical of porous bituminous conglomerates, thus reducing significantly the segregation between bitumen and aggregates, a typical phenomenon of high binder content mixes.

**Mapefibre FPC Plus** creates a thick film that surrounds the aggregate, thus forming a reticular, stable connection among the particles of the bitumen elements.

Adding organic binders to the cellulose fibres increases the plasticity of the bitumen, which makes it easier to place the asphalt and reduces the risk of the bitumen deforming when used by traffic.

## APPLICATION PROCEDURE

**Mapefibre FPC Plus** must be added directly in the mixer during the production phase of the bituminous conglomerate, preferably after having added the aggregates.

## CONSUMPTION

The amount of **Mapefibre FPC Plus** required is normally between 0.2% and 0.4% of the weight of the aggregates. This amount may vary, however, after carrying out laboratory tests during the design phase of the mix.

## PACKAGING

**Mapefibre FPC Plus** is available in 500 kg big bags.

## STORAGE

**Mapefibre FPC Plus** can be stored for 36 months in its original packaging, protected from rain, sources of heat and direct exposure to sun light.

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**Mapefibre FPC Plus** is an article and referring to the current European regulations (Reg. 1907/2006/EC - REACH) does not require the preparation of the Safety Data Sheet.

During use it is recommended to wear gloves and goggles and follow the safety requirements of the workplace. PRODUCT FOR PROFESSIONAL USE.

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

Appearance:	pallets
Colour:	grey-brown
Bulk density (kg/l):	0.4-0.55
Pallet length (mm):	from 2 to 8
Residue post-combustion (%):	15-25
Average pallet diameter (mm):	5-6
Average diameter of fibre micron:	> 7
Fiber resistance to temperature:	> 230

## 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)**

## 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.*

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