



Mono-filament, virgin polypropylene fibres, 12 mm long, for concrete

DESCRIPTION OF THE PRODUCT

Mapefibre NS12 are 100% virgin mono-filament polypropylene fibres which are resistant to alkalis and which do not absorb water. They have been specially developed to reduce the formation of cracks induced by hygrometric shrinkage of the concrete at the fresh and hardened stages. The special "mono-filament" formation makes their distribution and position within the concrete mix easier, so that they are distributed uniformly, to create a particularly strong matrix which is resistant to the stresses induced by the setting and hardening process.

WHERE TO USE

Mapefibre NS12 are particularly suitable for the following:

- production of concrete used for industrial floors, airport forecourts and multi-storey car-parks;
- production of pre-cast reinforced concrete panels and pipes and concrete sections;
- production of fire-resistant concrete.

RECOMMENDATIONS

The use of Mapefibre NS12 does not offer any advantage from a structural point of view, and may not be considered as an alternative solution to metal reinforcement.

It is also necessary to ensure that the design of the concrete mix is correct to prevent cracking phenomenon, and that curing of the concrete is carried out accordingly to avoid sudden evaporation of the water from the surface of the cast concrete.

COMPATIBILITY WITH OTHER PRODUCTS

Mapefibre NS12 are compatible with other admixtures used in the production of high-quality concrete, and especially with:

- acrylic-based super-plasticising agents from the Dynamon range, for an improved mix design, consistency and maintenance of workability;
- Mapecure range curing surface films, for correct curing of the concrete;
- Mapecrete System, innovative technology used in the production of concrete with volumetric stability;
- Mapeform Eco and DMA stripping compounds, used for stripping concrete from moulds.

HOW TO USE

Add **Mapefibre NS12** in the cement mixer together with all the other ingredients (cement, aggregates, water and admixtures). Mix until a homogenous blend is obtained.

CONSUMPTION

The normal dosage of **Mapefibre NS12** is 600 g/m³, usually added to the concrete. Higher dosage can be used for special applications such as shotcrete or fire resistance.



TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Length of fibres (mm):	12
Density (g/cm³):	0.91
Flame point:	+160°C-170°C
Melting point:	+400°C
Water absorption:	none
Resistance to alkalis, acids and salts:	high

400-500

PACKAGING

Tensile strength (N/mm²):

Mapefibre NS12 are supplied in 600 grams water-soluble paper bags, with 30 bags in each package.

STORAGE

Mapefibre NS12 may be stored for 36 months in their sealed bags, in areas sheltered from the direct rays of the sun and from rain.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapefibre NS12 is an article and referring to the current European regulations (Reg. 1906/2007/CE - REACH) does not require the preparation of the Material Safety Data sheet. Where applying the product, it is recommended to wear gloves and goggles and follow the safety requirements of the workplace.

PRODUCT FOR PROFESSIONAL USE.

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 web site www.mapei.com

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All relevant references for the product are available upon request and from www.mapei.com

