

779/7.99

MAPEPLAST PMX[®]

ADMIXTURE FOR ENHANCING THE PUMPABILITY OF CONCRETE



DESCRIPTION

MAPEPLAST PMX is a new liquid admixture that substantially improves the pumpability of concrete made with low cement content, or without fine-and very fine-particle aggregate, and reduces segregation and surface bleeding.

WHERE TO USE

Because of its special formula, MAPEPLAST PMX makes the cement mix highly cohesive which produces lean, pumpable, concrete without segregation, even fluid or super-fluid concrete (UNI 9858 and ENV 206 class S₄ and S₅).

MAPEPLAST PMX is especially recommended for:

- preparing pumpable concrete with less than 250 kg/m³ of cement;
- preparing concrete without segregation using aggregate containing no fine and very fine particles;
- preparing concrete with discontinuous grading of aggregates, i.e. lacking one or more sizes of aggregate particles;
- preparing super-fluid concrete without surface bleeding.

TECHNICAL CHARACTERISTICS

MAPEPLAST PMX is a blend of special additives which increases the cohesion of the cement matrix without entraining

unwanted air bubbles that reduce mechanical strength, as is well known, yet without significantly decreasing the fluidity of the mix.

For this reason MAPEPLAST PMX can produce pumpable concrete with excellent rheological properties even with low cement content and/or low-quality sand.

Compatibility with other products

MAPEPLAST PMX is compatible with other admixtures for quality concrete, especially with:

- All the plasticisers and super-plasticisers of the MAPEPLAST, MAPEMIX and MAPEFLUID product lines that increase mechanical strength;
- ANTIFREEZE S and LIQUID-ANTIFREEZE to reduce setting and curing time;
- MAPETARD to retard setting;
- FLY-ASH for concrete with artificial pozzolan;
- FORM RELEASE AGENT DMA 1000 and DMA 2000 for easy release of formwork from concrete;
- MAPECURE E curing compound to prevent rapid evaporation of the mix water from concrete cast without formwork (floors).

HOW TO USE

Add MAPEPLAST PMX to the mixer after pouring in all the other ingredients (water, cement, aggregates). Mix until a homogeneous paste is obtained.

MAPEPLAST PMX can also be poured into the mixer together with the water because its cohesion-promoting ability is unaffected by the order in which the ingredients are mixed.

CONSUMPTION

Dose by weight

From 0.2 to 0.6 kg for every 100 kg of cement.

Dose by volume

From 0.2 to 1.6 litres for every 100 kg of cement.

PACKAGING

MAPEPLAST PMX is available in 200 litre steel drums and in 1000 litre tanks.

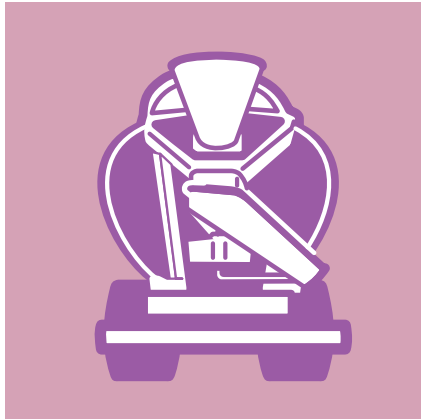
Also available in bulk on request.

STORAGE

Store in closed containers, protect from frost and exposure to direct sunlight.

WARNING

N.B. Although the technical details and recommendations contained in this report 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



applications; 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.

N.B. FOR PROFESSIONAL USE ONLY

TECHNICAL DATA:

PRODUCT IDENTIFICATION:

Appearance:	liquid
Colour:	light blue
Specific gravity:	1.00 ± 0.02 kg/litre at +20°C
Specific action:	elimination of segregation and bleeding
Chlorides:	absent
Storage life:	12 months in original closed packaging; protect from frost.
Health hazard according to EEC 88/379:	no
Inflammability:	no
Customs class:	3824 40 00

PERFORMANCE DATA OF MAPEPLAST PMX IN CONCRETE WITHOUT FINE AGGREGATE

Coarse gravel 15-25 mm:	kg/m ³	580	580	composition of the mix
Fine gravel 4-12 mm:	kg/m ³	1025	1025	
Coarse sand aggregate 3-6 mm:	kg/m ³	320	320	
Fine sand aggregate 0-4 mm:	kg/m ³	75	75	
Cement CEM I 42.5 R:	kg/m ³	320	320	
MAPEFLUID N 100:	lt/m ³	3.2	3.2	
MAPEPLAST PMX:	lt/m ³	-	1.1	
MIXING WATER:	lt/m ³	165	165	
W/C ratio:		0.51	0.51	
Slump (cm):		20	18	
Segregation:		present	absent	
Bleeding:		present	absent	
Mechanical resistance to medium compression (MPa)				
- after 24 hours:		17	17	
- after 3 days:		33	34	
- after 7 days:		35	37	
- after 28 days:		45	47	

MAPEI QUALITY SYSTEM



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