MAPEAIR LA/P

Foaming agent for flowable fill, light weight mortars and concrete



DESCRIPTION

Mapeair LA/P is a foaming agent for entraining high volumes of air in cement mixes, especially recommended for producing light weight mortar, light weight concrete and flowable fill.

WHERE TO USE

Mapeair LA/P produces light, easily pumpable mortar and concrete with high stability and cohesion.
Mapeair LA/P allows to make mixtures that are extremely fluid and with low amount of water. It reduces density and eliminates the risk of segregation.
Mapeair LA/P is especially recommended for:

- preparing mortar and concrete with natural and artificial light aggregates (pumice, expansive clay, polystyrene) with high insulating capacity;
- preparing high stability super-fluid mortar and concrete with a low modulus of elasticity and tensile strength;
- filling ground cuts after laying pipe.

Some application examples

- Lightweight mortar for filling spaces in hollow wall masonry.
- Inerting of cavity.

TECHNICAL CHARACTERISTICS

Mapeair LA/P is a blend of special surfactant developed by MAPEI for producing high percentage of still air in cement mixtures.
Mapeair LA/P is especially effective for producing air entrained mortars and flowable fill after laying pipe.
The air entrainment action of **Mapeair LA/P** produces fluid mixtures that need no manual or mechanical compaction, characterized by absolute dimensional stability when cured (no settling occurs when the trench is filled).
The flowable fill made with **Mapeair LA/P**:

- fills the ditch excavations perfectly and also provides a perfect seal for pipe joints;
- enables the excavation site to be quickly reopened to traffic. Only 24 hours after pouring, the mix reaches on average a resistance to deformation equal to that of compacted soil, and after 48 hours it reaches the performance level of a hydraulically bound base;
- can be easily removed during maintenance or substitution of pipes and cables. Because concrete made with **Mapeair LA/P** has only moderate resistance to tensile and shearing stress, the hardened material can be easily removed.

HOW TO USE

A **Mapeair LA/P** bag should preferably be added into mixer over the loaded material. Alternatively, it can be positioned on the aggregates' belt during the loading process. In case of light weight concrete production (< 900 kg/m³) **Mapeair LA/P** has to be mixed in water and stirred through a mechanical foam generator. The foam volume produced will vary according to the dosage of the product, water amount and type of foam generator used.

CONSUMPTION

Average dosage:
1 0.5 kg bag per cubic metre of mix.

PACKAGING

Mapeair LA/P is available in boxes containing 30x0.5 kg water-soluble bags.

STORAGE

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

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.com.
PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	powder
Colour:	white
Bulk density (g/cm³):	0.8
Dry solids content (%):	100
Specific action:	foaming agent
Chlorides:	absent
EXAMPLE OF MIXTURE FOR FLOWABLE FILLS	
Cement CEM II/A-L 32.5 (kg/m³):	100
Water (kg/m³):	150-180
Mapeair LA/P (kg/m³):	0.5

Aggregates (D_{max} = 12 mm) (kg/m³):	1,400
Density (kg/m³):	1,650-1,700
Resistance to compression: – after 28 days (N/mm²):	2-3
Modulus of deformation (load on slab test) (N/mm²): – after 24 hours: – after 48 hours: – after 48 hours: – after 28 days: – after 28 days:	110 with ΔP: 0.15-0.25 430 with ΔP: 0.15-0.25 330 with ΔP: 0.25-0.35 750 with ΔP: 0.15-0.25 600 with ΔP: 0.25-0.35

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

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.
The most up-to-date TDS can be downloaded from our website www.mapei.com.
ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

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6378-2-2024-gb

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