



Mapeair LA/L (former Mapeplast LA)

Liquid admixture for light-weight mortars and concretes

DESCRIPTION

Mapeair LA/L is a liquid admixture with foaming action for entraining high volumes of air in cementitious mixtures, especially recommended for producing easily pumpable light-weight mortars and concretes.

WHERE TO USE

Because of its foaming action and its ability to form evenly spaced micro-bubbles of air in the cement matrix, **Mapeair LA/L** produces light-weight, easily pumpable mortars and concretes with high stability and cohesion.

The reduced density of the cement matrix caused by the presence of air bubbles formed by **Mapeair LA/L** prevents light-weight aggregates from floating to the surface.

Mapeair LA/L is especially recommended for:

- preparing mortars and concretes with natural and artificial light-weight aggregates (pumice, expansive clay, polystyrene) with high insulating capacity;
- preparing high stability super-plastic mortars and concretes with a low modulus of elasticity and tensile strength for filling ground cuts after laying pipes;
- to make cellular concrete using special pumps to generate the right amount of flow of foam.

Some application examples

Because of its ability to entrain air in the form of spherical micro-bubbles, **Mapeair LA/L** produces light-weight mortars and concretes with high fluidity and absence of segregation for:

- light-weight mortars for filling spaces in hollow wall masonry;
- mortars and concretes for filling ground cuts after laying pipes for water and gas lines, sewers, electric and telephone cables, etc.;
- cellular concrete to make lightweight substrate screeds.

TECHNICAL CHARACTERISTICS

Mapeair LA/L is a water solution of special organic polymers with strong foaming action developed by MAPEI for producing light-weight concretes and mortars with high stability and easy pumpability.

Mapeair LA/L is especially effective for producing aerated mortars and concretes for filling ground cuts after laying pipes.

Concretes made with **Mapeair LA/L**:

- fill in cuts perfectly and also provide a perfect seal for pipe joints. The excellent results obtained in filling cuts with foamed concretes and mortars admixed with **Mapeair LA/L** prevent the bleeding

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	liquid
Colour:	brown
Specific weight (g/cm ³):	1.10 ± 0.02
Dry solids content (%):	28
Principal action:	foaming agent
Collateral action:	retards early hydration when used in high doses
Chlorides:	no

of water that usually occurs when loose earth or conventional concrete is used for fill;

- prevent the fill material from settling under the load of traffic passing over it. Foamed concretes and mortars produced with **Mapeair LA/L** admixture adhere perfectly to the wall of the cut and are as solid as the surrounding ground. Using **Mapeair LA/L** prevents the settling that occurs when cuts are filled with gravel or conventional cementitious mixtures, along with the resulting cracks in the bituminous road surface;
- can be easily removed during maintenance or substitution of pipes and cables. Because foamed concretes made with **Mapeair LA/L** have only moderate resistance to tensile and shearing stress, the hardened material can be easily removed.

Whether used for preparing insulating mortars or foamed concretes the foaming action of **Mapeair LA/L** can be reduced by adjusting the amount used (0.8 to 1.2 litres per m³ of mix).

The collateral retardant effect of **Mapeair LA/L** increases with the amount used. However, using more than 1.2 l/m³ of mix is not recommended, as this would excessively retard setting time.

COMPATIBILITY WITH OTHER PRODUCTS

Mapeair LA/L admixture is compatible with other products for producing special concrete, such as:

- all superplasticisers of the **Chronos**, **Dynamon** and **Mapefluid** product lines for increasing the mechanical properties of concrete;
- setting and hardening accelerators from the **Mapefast** range;
- fly ash for producing concrete with artificial pozzolan;
- **Mapeform Eco** product line and **DMA 1000 Form release agent** for releasing concrete from formwork;
- **Mapecure E**, **Mapecure S** and **Mapecure CA** curing agents for preventing rapid evaporation of water from concrete cast without formwork (floors).

CONSUMPTION

Dosage:

from 0.8 to 1.2 litres for every m³ of mix.

PACKAGING

Mapeair LA/L is available in 200 litre drums or in 25 kg buckets, and in 1000 litre tanks.

STORAGE

Store **Mapeair LA/L** for 12 months in closed containers, protect from frost and exposure to direct sunlight-weight.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapeair LA/L is not considered dangerous according to the European regulation regarding the classification of mixtures. It is recommended to wear gloves and

goggles and to take the usual precautions taken for the handling of chemicals. For further and complete information about a safety use of our product please refer to our latest version of the Material Safety Data Sheet.

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 website www.mapei.com

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

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