MAPEAIR FOAM

Liquid admixture to produce lightweight concrete

DESCRIPTION

Mapeair Foam is a ready to use liquid foaming agent which is used to produce lightweight foam concrete for a variety of insulation and construction applications.

TECHNICAL CHARACTERISTICS

Mapeair Foam has excellent stability over a wide range of temperatures and water ratios. This stability means that the foam bubbles sustain themselves and support the mortar around them. The bubbles do not burst easily and hence the foam concrete doesn't collapse when made or after it has been placed. A high level of entrapped air is generated, hence low-density concrete can be achieved.
Mapeair Foam, when processed through a foam generator, solvates **Mapeair Foam** in water, which creates a high volume of stable white foam. The foam can easily be injected into any mortar mix to make a fluffy and easily handled mixture.
Mapeair Foam can be used with all types of Portland cement or sand-cement slurries to produce foamed concrete of every type and every application.

WHERE TO USE

Mapeair Foam is suitable to use with various cement types in the following areas:
· Foam concrete that is particularly suitable as a light, insulating, levelling layer on roof and floors. As it can be pumped easily, it offers significant advantage over lightweight building materials
· Lightweight foam concrete especially below 1000 kg/m^3 can be used as encase for different infrastructure pipes. At some later stage should access be required to these encase services, the foam concrete can be easily removed. If conventional concrete has been used this would be difficult
· Lightweight concrete with plastic density of approximately 1500 kg/m^3 can be used as a backfilling concrete. This type of concrete can be placed directly from the truck mixer and requires no compaction, unlike other granular fill materials which need careful compaction
· **Mapeair Foam** can also be used with trowel ready mortar, insulation mortar, polystyrene concrete, and lightweight precast concrete panels.

ADVANTAGES

· Self-compacting
· Simple placing by means of chutes, pipes, or pumps
· No additional transfer equipment required
· Re-selected strength density values

APPLICATION PROCEDURE

Mapeair Foam is normally applied with foam generator, direct dosage is also possible for specific applications. The specific gravity of the mortar-foamed concrete can be adjusted by the amount of foam or foaming agent added respectively.
The foam prepared with **Mapeair Foam** and foam generator is very stable. Therefore, it can be added to the premixed mortar or grout.

We recommend to dilute 1liter of **Mapeair Foam** admixture in 50 liters of water. The foam produced with a 3 bars air pressure will have a density of 50 ± 5 kg/m3 . Consequently, 1 liter of admixture produces around 1000 liters of foam. The required dosage for a specific job conditions should be determined by trails carried out on site.

RECOMMENDATIONS

The maximum efficiency will be determined after a test of suitability. The amount of entrained air must be verified periodically in concrete since it varies with the nature of the aggregate and water-cement ratio.

PACKAGING

Mapeair Foam is available in 200 litres drums, 25 litres jerrycans, 5 litres jerrycans and 1000 litre mega drums.

STORAGE

Mapeair Foam can be stored for 12 months in sealed containers. Protect from frost and direct sunlight.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instruction on the safe use of our products can be found on the latest version of the Safety Data Sheet available on our website www.mapei.ae

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	liquid
Colour:	clear
Density (ISO 758) (g/cm^3):	1.04 ± 0.02 at +25° C
pH (ISO 4316):	8.0 ± 2.00

IMPORTANT NOTES

Whilst we try to ensure that any advice, recommendations or information given in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is therefore important that installers satisfy themselves that the product and conditions are suitable for the envisaged application. No warranty can be given or responsibility accepted other than, that the product supplied by us will meet our written specification. The installer should ensure that our latest product data and safety information sheets have been consulted prior to use.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.ae

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into other project-related documents, 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.ae.

ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

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