

MAPEI EM Q4

Emulsifier for slow-setting cationic bitumen emulsions

DESCRIPTION

Mapei EM Q4 is a quaternized alkyl amine-based cationic emulsifier for slow-setting acid bitumen emulsions.

WHERE TO USE

- **Mapei EM Q4** may be used in the production of bituminous emulsions in the cold-recycling process of bituminous road surfacing.
- **Mapei EM Q4** may be used in the production of bituminous emulsions used in the preparation of surface treatments such as Slurry Seal.
- **Mapei EM Q4** may be used in the production of bituminous emulsions used to form slow-setting tack coats.

TECHNICAL CHARACTERISTICS

Mapei EM Q4 is a modified quaternized alkyl amine-based cationic emulsifier in water solution. The product has particular chemical and physical characteristics that create finely dispersed bituminous mixes resistant to coalescence, thereby enabling stable bituminous emulsions to be produced.

RECOMMENDATIONS

Do not dilute **Mapei EM Q4** with solvent, glycol or glycerine.

HOW TO USE THE PRODUCT

Mapei EM Q4 must be dispersed in the water phase of the bituminous emulsion at temperature of +30°C to +50°C and acidified with HCl to a pH level of 1 to 2 upH. Once **Mapei EM Q4** has been dispersed in the water phase and then stirred for at least 10 minutes, check the pH level again and, if required, add more HCl to bring the pH level back to between 1 and 2 upH.

Compatibility

Mapei EM Q4 is compatible with other emulsifiers for MAPEI acid bituminous emulsions, such as **Mapei EM Q5** and **Mapei EM P**. Make sure the various combinations are verified and agreed upon beforehand with the MAPEI R&D laboratory so that final quality is not compromised.

CONSUMPTION

Consumption of **Mapei EM Q4** is heavily influenced by the type of bitumen used, the percentage of binder in the emulsion, the type of colloidal mill used and all other conditions that have an effect on the production process of the bituminous emulsion. The recommended consumption rate for **Mapei EM Q4** is normally between 0.8% and 1.5% of the total weight of the bituminous emulsion. Different dosage rates must be tested beforehand in the laboratory.

PACKAGING

Mapei EM Q4 is supplied in 950 kg IBC containers, 190 kg drums and 23 kg buckets.

STORAGE

Store **Mapei EM Q4** in its original, sealed container away from sources of heat and direct sunlight at a temperature of +10°C to +40°C. Use the product within 24 months of manufacture. For further information please refer to the product's SDS.

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)			
Characteristic	Unit	Specification	Method
Appearance at +25°C:		thick liquid	visual
Colour:		transparent-yellowish	visual
Density:	g/cm ³	0.95-0.99	ISO 758
pH:	upH	6.0-9.0	ISO 4316

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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