

MAPEI ACTIVE SIL-2

Anti-stripping agent for bitumen

DESCRIPTION

Mapei Active Sil-2 is a high-performance silane-based liquid additive developed to improve the chemical-physical compatibility between bitumen and aggregates, particularly useful when using acidic aggregates that are poorly compatible with the bitumen or in geographical areas exposed to heavy rainfall or high concentrations of moisture. The use of **Mapei Active Sil-2** helps to extend the life of the road surface by reducing leaching of bitumen as a result of weathering and reducing chipping in the wearing course.

MAIN AREA OF APPLICATION

The use of **Mapei Active Sil-2** is recommended with all types of bitumen, both polymer-modified (elastomeric, thermoplastic) and unmodified; with all types of asphalt mixtures, both conventional (dense) and porous, to extend their durability, significantly reduce regular maintenance. In certain cases (depending on the nature of the bitumen), the additive can improve the workability and compactability of asphalt mixtures.

ADVANTAGES

The use of **Mapei Active Sil-2** allows:

- improving the degree of coverage and the affinity of bitumen to aggregates and increasing the resistance of bitumen to washing away by water (EN 12697-11; EN 12697-12; EN 12697-17; ASTM D 3625; ASTM D 4867; AASHTO T 283; AASHTO T 324);
- increase pavement durability and reduce maintenance;
- increase in the workability and compactability of the asphalt mixture (depending on the nature of the bitumen);
- stability of the properties of the hot asphalt mixture during storage in the silo.

APPLICATION GUIDELINES

In order to obtain the best efficiency in the application of **Mapei Active Sil-2**, it is recommended to add the product directly to the bitumen tank and mixed with the binder, or during the production of the asphalt mixture by adding it to the bitumen before mixing with the aggregate. If **Mapei Active SIL-2** is added to the bitumen tank and needs to be left for an extended period of time, the bitumen should be periodically stirred (by stirring or pumping - circulating). When **Active-Sil 2** is added to a tank of hot bitumen, the product retains its properties at temperatures up to 170 degrees Celsius for about 14 days.

DOSAGE

The additive quantity should be determined in accordance with the technical specification, taking into account the operating conditions of the pavement and optimized by prior laboratory testing. Commonly **Mapei Active**

Sil-2 used dosages range from 0.03% to 0.15% by weight of bitumen, depending on the situation (type of aggregate, type of asphalt mixture, layer, etc.).

PACKAGING

- 25 kg tanks
- 215 kg drums
- 1100 kg tanks (IBC containers)

STORAGE

In order to ensure the best storage conditions of **Mapei Active Sil-2**, the product should not come into contact with water or moisture, it should be stored in its original packaging for up to 12 months, away from heat sources and direct exposure to sunlight at a temperature between 5°C and 40°C.

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 TECHNICAL DATA	
Consistency:	liquid
Colour:	transparent
Odour:	light and characteristic
Bulk density - ISO 758:	1.07±0.02 g/cm ³

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.

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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