

# MAPECURE 1

Curing membrane



## WHERE TO USE

**Mapecure 1** is a curing compound which is sprayed onto fresh or newly placed concrete to prevent moisture loss from the surface.

## TECHNICAL CHARACTERISTICS

**Mapecure 1** is a simple and effective curing method for concrete, especially suitable for slipforming, exposed surfaces of bridges, quays, roads and airport runways. The product is based on a paraffin wax emulsion. Concrete needs a high moisture content above all in the early stages of curing. Water evaporation will stop the hydraulic reaction, as the cement gel only forms in water filled capillaries. If the concrete loses water by evaporation from the surface during this period, shrinkage increases rapidly, which can lead to cracking of surfaces.

**Mapecure 1** forms a film which protects the concrete from moisture loss (water evaporation) in the setting period and the early stages of hardening.

Use of curing membrane and/or covering with plastic is always needed.

By casting in severe drying conditions, or by casting concrete with low mass ratio, it will be necessary to apply **Mapecure 1** immediately after the concrete is laid out. After the concrete is polished or smoothed must again apply **Mapecure 1**, or covering the concrete otherwise.

The main factors which influence drying out are temperature, wind velocity, air humidity, concrete quality, water content, water separation, cement type and the thickness of the construction. The large number of determining factors explains why lack of curing sometimes results in damage and other times does not.

Use of curing compounds is an inexpensive insurance against cracks and poor surface quality. Films which are formed by **Mapecure 1** decompose slowly over several weeks and therefore prevent rapid water evaporation. The film which is sprayed on is rarely worn away completely. It will be necessary to remove all traces of **Mapecure 1** to obtain maximum adhesion between the concrete and subsequent treatment (epoxy, paint, screed etc.).

**Mapecure 1** fulfills requirements to water retention in ASTM C309.

## WORKING INSTRUCTIONS

Normal consumption is 0.2 - 0.3 kg/m<sup>2</sup>.

Apply **Mapecure 1** with spray equipment. Brushes or rollers can also be used.

Apply **Mapecure 1** immediately after placement.

## CLEANING

Clean equipment with water.

Sprayer nozzles should not be left filled with **Mapecure 1** but should be washed immediately the work is finished.

## ATTENTION

**Mapecure 1** must be shaken or stirred before use.

## PACKAGING

**Mapecure 1** is available in 25 liter cans, 200 liter drums and in 1000 liter IBC tanks.

## STORAGE

The product must be stored frost free and has a shelf life of 12 months in sealed packaging.

## SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website [www.mapei.no](http://www.mapei.no)

PRODUCT FOR PROFESSIONAL USE.

## TECHNICAL DATA (typical values)

PRODUCT IDENTITY	
Form:	liquid
Colour	white
Viscosity:	low viscosity
Density:	0.98 ± 0.02 g/cm <sup>3</sup>
pH:	9 ± 1
Evaporation reduction at 72 hours (ASTM C309/C156):	84 % (0.3 kg/m <sup>2</sup> )

## 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 web site [www.mapei.no](http://www.mapei.no)

## LEGAL NOTICE

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*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 effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at [www.mapei.no](http://www.mapei.no)*

ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.

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