



# Mapecure Hardener

## Impregnation for concrete/curing membrane



### AREA OF USE

**Mapecure Hardener** is a colourless liquid that reduces permeability, increases strength and seals concrete constructions.

**Mapecure Hardener** will penetrate micro pores and finer cracks in the concrete without leaving a film after treatment.

The **Mapecure Hardener** treatment of the concrete structure will seal the surface and reduce water penetration. Consequently the deterioration process of concrete will be impeded, there will be less growth of algae and fungus, any miscolouring will be reduced and the durability of the construction is considerably increased.

### MAPECURE HARDENER AS IMPREGNATION

Mapecure Hardener treatment will tighten the concrete surface and reduce the water permeation. This will increase the durability, reduce growth of fungus and discolouring.

Impregnation with **Mapecure Hardener** will:

- Strengthen concrete surfaces .
- Reduce or totally eliminate problems of dusting from weaker concrete surfaces .
- Reduce water penetration .
- Fill smaller cracks and pores
- Reduce need for regular maintenance .
- Stop growth of fungus and discoloration .
- Increase concrete durability .

The concrete surface must be clean, free of particles and dry when treated. Ambient temperature at application time and the next 24 hours must be at least

+ 5 °C. **Mapecure Hardener** is a low viscous liquid easily applicable with a roller, brush or by spraying. The concrete surface should be treated with **Mapecure Hardener** in two coatings. The second layer should be applied immediately after the first one has been absorbed into the substrate. If the surface contains a lot of smaller cracks, a third coating might be necessary. The products harenig time is dependent on the actual concrete quality; it might take as long as three weeks. **Mapecure Hardener** treated floors/slabs can be walked on as soon as they are surface dry (1/2 to 1 hour).

### MAPECURE HARDENER AS CURING

**Mapecure Hardener** can be sprayed onto fresh concrete for reducing evaporation from concrete surface and thereby reduce risk of cracks. After casting it is recommended to treat concrete with **Mapecrete Film NOR** and then after throweling or polishing **Mapecure Hardener** can be used as curing membrane. Application should be done with a suitable spray can.

**Mapecure Hardener** is tested for water retention in accordance with ASTM C309, and meets the requirements.

**Mapecure Hardener** will penetrate into concrete's surface and will not leave any remaining film in top of concrete. **Mapecure Hardener** used as a curing membrane should therefore not be in conflict with any further impregnation or surface treatment of concrete.

### DOSAGE

**Dosage as impregnation:**  
from 0.1 to 0.3 litre per m<sup>2</sup> per coating.

## TECHNICAL DATA (typical values)

### PRODUCT INFORMATION

Form:	liquide
Colour:	clear/transparent
Viscosity at +20 °C (mPa-s):	< 15
Dry content (%):	13.0 ± 1.3
Specific density (g/cm <sup>3</sup> ):	1.10 ± 0.02
pH:	11.0 ± 1.0
Alkali content (Na <sub>2</sub> O-equ.) (%):	≤ 4.0
Water soluble chloride (%):	≤ 0.05

#### Dosage as curing:

0.2 litre per m<sup>2</sup> (ASTM C309-test is executed with 0.2 kg/m<sup>2</sup>).

#### EMBALLASJE

Mapecure Hardener is delivered in 25 litre cans, 200 litre barrels, 1000 litres IBC-container and bulk.

#### STORAGE

Mapecure Hardener can be stored for 12 months in sealed containers, protected from frost.

#### SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

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.

#### 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.no](http://www.mapei.no)**

#### 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.no](http://www.mapei.no)***

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

**Alle relevante referanser for produktet kan fås på forespørsel og fra [www.mapei.no](http://www.mapei.no)**



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