



Mapecure E

Film-forming curing compound in water emulsion for concrete



WHERE TO USE

To protect fresh concrete from rapid water evaporation caused by wind or sunlight and to reduce surface cracking.

Some application examples

Mapecure E is especially recommended for protecting concrete structures such as:

- industrial floors;
- exterior paving (roads, parking lots);
- airport runways;
- renders;
- dam faces;
- bridges;
- canals;
- reservoirs.

TECHNICAL CHARACTERISTICS

Mapecure E is a white water emulsion of special resins which forms an even slightly elastic film on concrete that is impermeable to water and air.

Mapecure E provides reliable protection against

rapid evaporation of water in concrete, whether exposed to direct sunlight or under severe rapid drying conditions caused by wind, low humidity, or high ambient or concrete temperatures.

Mapecure E offers the following advantages:

- better development of mechanical strength: the absence of moisture in curing concrete can result in a loss of strength up to 50%;
- better resistance to wear;
- less surface dusting;
- less plastic shrinkage cracking;
- elimination of traditional methods of protection such as water, wet burlap sacks, wet sand, etc.;
- fast and easy application;
- lower labour costs and more efficient job-site management.

RECOMMENDATIONS

Mapecure E interferes with the bonding of any other finishing product. Its use is therefore not recommended for curing concrete or renders when levelling or painting is required, (unless thoroughly cleaned with a bushhammer or by sanding to remove

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	runny fluid
Colour:	white
Density according to ISO 758 (g/m ³):	0.93 ± 0.03 at +20°C
pH according to ISO 4316:	> 9
Dry solids content according to EN 480-8 (%):	> 50
Main action:	surface concrete protection against rapid water evaporation
Brookfield viscosity (1 shaft - 50 revs.):	< 70 (+23°C)
Curing efficiency index at 72 h (CEN/TS 14754-1):	> 85% (dosage 200 g/m ²)
Mass loss per unit area (ASTM C156) (kg/m ²):	≤ 0,55 (comply with ASTM 309)
APPLICATION DATA	
Product as it is:	ready for use
Diluted product (dilution ratio):	1:1 by volume with water
Application temperature:	from +5°C to +30°C
Tack-free time at +20°C:	2-3 hours

the product). If applied on horizontal surfaces such as roads, parking lots and airport runways, in an amount higher than allowed, and if not thoroughly removed, the surface could result as slippery for rubber tyre vehicles.

Generally do not use **Mapecure E** if it is not removed before:

- the concrete is levelled with cementitious mortars;
- the concrete or render is varnished or painted over;
- for subsequent covering with ceramic tiles, wood, rubber, etc.;
- construction joints for new over old concrete.

APPLICATION PROCEDURE

Mapecure E should be applied to the surface of the concrete after bleeding. For industrial paving, **Mapecure E** must be

applied after the concrete has started to set.

For concrete formwork **Mapecure E** must be applied immediately after stripping.

Preparing the product

Carefully mix **Mapecure E** before applying. **Mapecure E** may be used full-strength, or diluted in a ratio of 1:1 by volume with water, in which case, stir in water and mix thoroughly until even.

Applying the product

Apply **Mapecure E** in one spray coat with approx. 1 atmosphere of pressure in a thin and even layer. After approx. 2-3 hours at +20°C **Mapecure E** resists rain water.

Cleaning

Spray tools must be cleaned with water before **Mapecure E** dries.

CONSUMPTION

Mapecure E full-strength: 70-100 g/m².

Mapecure E diluted: 1:1 with water:
140-200 g/m² in solution.

PACKAGING

Mapecure E is supplied in 25 kg tanks,
200 l drums and in 1000 l tanks.

STORAGE

Mapecure E can be stored for 12 months
in closed containers; protect from frost and
exposure to direct sunlight at temperatures
between +5°C and +30°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.

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.***

**All relevant references
for the product are available
upon request and from
www.mapei.com**

Mapecure E



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793-7-2020 (GB)