



# CI-brems

**Silanbased, hydrophobic impregnation against chloride ingress**



## WHERE TO USE

Colourless impregnation to protect concrete and rendered surfaces exposed to rainfall. Ideal for the prevention of chlorideion penetration.

## TECHNICAL CHARACTERISTICS

**CI-brems** is a silanbased colourless hydrophobic concrete impregnation. **CI-brems** penetrates the pore system, making the surface water-repellent. Forms no surface film, but protects concrete constructions against chlorideion penetration. Impregnation is particularly suited to bridges, quays, car parks etc. exposed to chloridions.

Approved by the Norwegian Public Roads Administration for use on concrete bridges.

**CI-brems** complies with the principles of the EN 1504-9 standard "Products and systems for the protection and repair of concrete structures. Definitions, requirements, quality control and evaluation of conformity. General principles for the use of products and systems" and the requirements of EN 1504-2 "Surface protection systems for concrete".

## AREA OF USE

**CI-brems** permeates well and is resistant to alkaline environments. Impregnation makes the surface water-repellent yet still open to diffusion. During the curing process, hydrophobic compounds are formed in the pores and the capillary system of the concrete. The concrete's original moisture permeability is maintained.

## APPLICATION PROCEDURE

### Preparation before use

Before application, it is essential to clean the surface. Remove all dirt, dust, grease, oil, paint, salt laitance, moss and weeds that might prevent **CI-brems** from penetrating. For old surfaces, the choice of cleaning will depend on the kind of dirt involved. Washing with soap is in many cases sufficient. Regardless of cleaning system used, **CI-brems** should only be applied on dry surfaces.

### Preparing the product

**CI-brems** is ready to use and shall not be diluted.

### Application

The efficiency and durability of **CI-brems`** water repellent action depends of the depth of penetration. This is directly proportional to the absorbence capacity of the surface and the amount of material applied.

**CI-brems** should be applied by brush or low pressure spray apparatus. Apply a number of coats wet in wet until the surface is completely saturated.

## PACKAGING

**CI-brems** is supplied in 15 kg tubs.

## CONSUMPTION

Coverage depends on the porosity and absorption of the surface.

Concrete, 0.1 – 0.2 kg/m<sup>2</sup> per coat.

TECHNICAL DATA (typical values)			
<b>PRODUCT IDENTITY</b>			
Colour:	transparent		
Consistency:	fluid liquid		
Density (g/cm <sup>3</sup> ):	approx 0.9		
<b>APPLICATION DATA</b>			
Drying time:	approx. 1 hour		
Application temperature:	+5 to +30 °C		
<b>Properties when hardened</b>			
Technical data for product	Test method	Requirements according to EN 1504-2	Properties
Penetration depth:		Class 1 < 10mm Class II > 10mm	Class I
Water absorption % alkali resistance %:	EN 13580	Absorption <7, 5% Absorption AR < 10%	3.2 9.9
Drying rate for hydrophobic impregnation:	EN 13579	Class I >30% Class II >10%	Class I
Mass loss after freeze/thaw cycles	EN 13581		NPD
Hazardous components:			See Safety Data Sheet

**STORAGE**

CI-brems has a shelf life of min. 12 months if stored in sealed original container, protect against direct sunlight.

**SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION**

CI-brems can irritate the eyes, skin and respiratory tracts. If the product comes in contact with the eyes or skin, wash immediately with plenty of clean water and seek medical attention. When applying the product it is recommended to use protective clothing, gloves, goggles and a safety mask to protect the respiratory tract. CI-brems is hazardous to aquatic organisms. Avoid release to the environment.

For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

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)**

**All relevant references for the product are available upon request and from [www.mapei.no](http://www.mapei.no)**

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