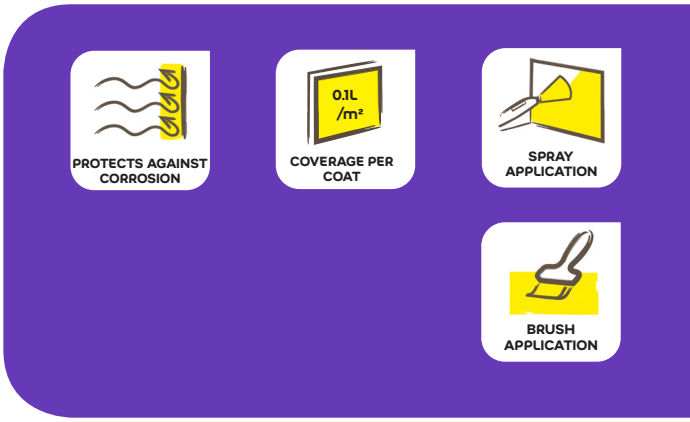
webertec MCI

Surface applied ready-mixed migrating corrosion inhibitor

- Reduces rate of corrosion
- Decreases water absorption
- Easy to apply



About this product

webertec MCI is a clear, surface-applied corrosion inhibitor designed to reduce the rate of corrosion by penetrating the concrete to form a protective barrier.

webertec MCI is to be applied to concrete surfaces that have not been subject to repairs. If required, **webertec MCI** can be applied prior to the application of **webercem fairing coat** or **webercote** coatings. The inhibition process reduces the need to cut out and repair more concrete than absolutely necessary. However, as it depends on capillary absorption, penetration is more effective in dry concrete.

Features and benefits

- Surface treatment proven to reduce the rate of corrosion
- Decreases the treated concrete's permeability to water which reduces the amount of harmful ions entering the repair. This in turn can delay the onset of corrosion.
- Water based
- Easy to apply

Uses

Used for corrosion protection in steel reinforced, precast, pre-stressed and post-tensioned concrete structures.

Suitable for structures such as:

- Car parks
- Tunnels and other underground structures
- Marine structures
- Concrete framed buildings

Ideal for use as part of a Weber repair strategy.

Constraints:

- Do not apply **webertec MCI** beneath or on the surface of **webercem** hand placed patch repair mortars
- Failure to properly prepare or suitably clean substrates could adversely affect bond strengths
- The rate of absorption will be affected by the permeability and moisture content of the concrete
- While **webertec MCI** will delay corrosion it will not entirely prevent it
- Ensure surfaces to be treated are dry and protected from inclement weather
- Not to be applied to substrate with a chloride content of greater than 1%

Prior to the use of **webertec MCI** Weber recommends that an appropriate condition survey is undertaken by a suitable qualified person. **webertec MCI** should be used for structural elements which are easily accessible enabling continued risk based assessment (by a suitably qualified person). Future remediation strategies should be considered as part of a permanent solution. Not to be used for half joints, bearing shelves and other areas where the consequences are more significant. **webertec MCI** is only designed to reduce the rate of corrosion and therefore the level of deterioration of structural reinforcement. **webertec MCI** will not stop or prevent corrosion and will not achieve full cathodic protection as defined within BS EN ISO 12696.

Technical data	
Appearance	Clear amber liquid
Specific gravity	1.05
pH	8.5
Application temperature	+5°C to +40°C
EU-VOC (%)	0%
Consumption	Approx. 0.1L/m2*
Bond of **webercote EC** or **webercote smooth** over **webertec MCI**	>0.8MPa in accordance with BS EN 1504-2
Water absorption	Decreased by approx. 29%**
Maximum chloride content of substrate	1%

* Depending on concrete permeability, moisture content and surface profile

** Compared with untreated concrete

weber SAINT-GOBAIN

Preparation

Concrete structures should be inspected and any significant defects such as cracks, spalls, and honeycombing should be noted and marked. These defective areas must be repaired, in accordance with normal concrete repair procedures. Areas that have been repaired are not suitable for application of **webertec MCI.**

The non-repaired concrete to be treated must be dry, sound and free of any loose material, dust or other contaminants such as grime, lichens, mould oil, grease, curing agents etc. Any coatings must be removed as **webertec MCI** will not penetrate sealers, coatings or paints.

If **webercem fairing coat** is required, the substrate should be prepared by mechanical means to create a suitable key. If a fairing coat is not required, then clean by means such as power washing or other suitable methods.

Surfaces should be sufficiently dry before the application of **webertec MCI.**

webertec MCI is alkaline so all susceptible surfaces such as glass windows etc. must be adequately protected. Clean any surfaces that **webertec MCI** accidentally comes into contact with immediately.

Application

webertec MCI is ready-mixed and should not be diluted prior to use. Shake container well before application. **webertec MCI** is applied by non-atomising spray (should conditions permit), roller or brush onto the prepared concrete surface at a rate of approximately 0.1L/m2. The permeability of the concrete will determine the number of coats needed to achieve full coverage, typically 2 is recommended. Apply the next coat as soon as the surface has visibly dried out.

Treated surfaces must be allowed to dry for at least 24 hours, during which protection from rain must be provided.

Power-washing should then be carried out to remove any traces of surface dried inhibitor which is evidenced as a white powdery deposit. If left in place this can affect bond of the levelling mortar or coatings. Following this, **webercem fairing coat** can be applied.

If **webercem fairing coat** is not to be applied it is recommended that **webercote smooth** or **webercote EC** be applied to lock in the inhibitor. **webercote primer** should also be applied prior to a **webercote** finish.

Coverage

Approximately 0.1L/m2 per coat, depending on concrete permeability, moisture content and surface profile.

Packaging

webertec MCI is supplied in 25kg plastic bottles which is approximately 23.8L.

Storage and shelf-life

Store in cool, dry conditions at a temperature greater than 5°C. Protect from sunlight and sources of direct heat. The container should be kept sealed when not in use. Shelf life of product when stored in correct conditions is 24 months.

Health and safety

For further information, please request the Material Safety Data Sheet for this product.

Saint-Gobain Weber
Dickens House, Enterprise Way
Maulden Road, Flitwick, Bedford, MK45 5BY

+44 (0) 1525 718877
technical@netweber.co.uk
www.uk.weber
@SGWeberUK

we care

weber SAINT-GOBAIN