

# MasterShield CI 8020 (formerly MasterProtect 8020CI)

Surface applied corrosion inhibitor

## Material Description

**MasterShield CI 8020** is a surface applied corrosion inhibitor designed to migrate through even the densest concrete structures and form a layer on the steel reinforcing bars.

**MasterShield CI 8020** also protects a multitude of other metals including carbon steel, galvanised steel and aluminium. The corrosion inhibitor will migrate through concrete until it finds steel to create a protective layer on. **MasterShield CI 8020** will stop the further corrosion of reinforcing metals and extend the service life of the structure.

## Areas of Application

- All reinforced, precast, prestressed, post-tensioned or marine concrete structures
- Steel-reinforced concrete bridges, highways and parking decks, ramps and garages exposed to corrosive environments (carbonation, deicing salts and salt spray)
- Concrete piers, dams, offshore platforms, piles, pillars, pipe and utility poles
- Preventative maintenance, restoration and repair of all reinforced concrete commercial and civil engineered structures
- Cooling towers and potable water tanks

## Characteristics and Benefits

- Migratory - penetrates the concrete to find and protect the reinforcing steel. Offers engineers, owners, contractors and government authorities a time proven corrosion inhibiting technology that will extend the life of all reinforced concrete structures.
- Slows existing corrosion – reduces corrosion rate of corroding steel not yet visible.
- Preventative treatment – provides protection in new structures where insufficient cover is an issue.
- Controls incipient anodes – stops the formation of incipient anodes at new to old concrete interface.
- Does not interfere with bond of repair mortars or coatings – can be used directly onto areas to be repaired.

- Forms passive layer underneath rust on steel – slows corrosion to allow for longer term repair strategy to be put in place.
- Easy application - spray, roller, squeegee or paint brush to any concrete surface.
- Water-based - for easy handling and application.
- Allows concrete to breathe and vapour to diffuse - is not a vapour barrier.
- Dual action inhibitor - protects both anodic and cathodic areas.
- No cure time is required - traffic may resume minutes after application if necessary.

## Properties

Specific Gravity Density	1.01 – 1.03
Appearance	Clear amber
pH	10.4 – 11.5

## Surface Preparation

Surface should be dry, sound, clean and free of all dirt, oil, grease efflorescence, sealers, coatings, membranes and asphalt. Cleaning may be done by steam cleaning, waterblasting or sandblasting.

The substrate and ambient temperature should be above freezing. Do not apply if temperature is expected to fall below freezing within 12 hours. **MasterShield CI 8020** will not penetrate film-forming sealers, coatings, paints, membranes or asphalt.

## Estimating Data

3.5m<sup>2</sup>/, dense substrates or application overhead may require 2 coats at the rate of 5.52m<sup>2</sup>/l.

## Packaging

**MasterShield CI 8020** is supplied in 20 litre pails and 208 litre drums.



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## Storage & Shelf Life

MasterShield CI 8020 can be stored for up to 24 months in the sealed, airtight pails supplied.

## Precautions

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.

## Disclaimer

MasterShield-CI 8020-ANZ-V1-0325

### STATEMENT OF RESPONSIBILITY

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