



CORROSION CONTROL



Mapeshield I

“HIGH PERFORMANCE IN TOUGH CONCRETE ENVIRONMENTS”

Product information

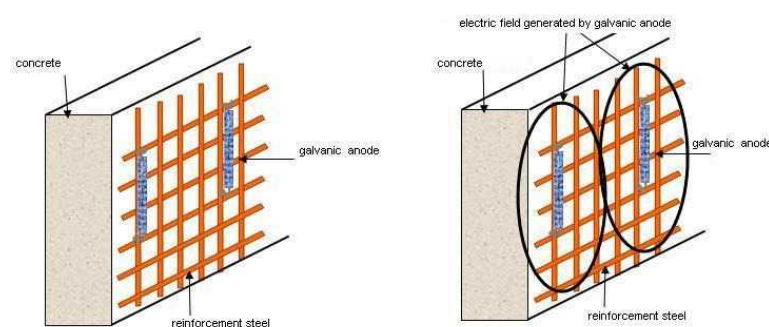
Mapeshield I anodes are specifically designed to inhibit the corrosion of concrete reinforced structures. The anodes are typically embedded within the concrete or repair mortar and are electrically connected to the reinforcement.

Mapeshield I anodes are made of laminated zinc with a 99.99% purity covered by two layers of zinc-anode-activator-paste. The anode's designed service life is between 10 years and 20 years depending upon selected size and correct system design.

Each anode is sealed in a plastic bag to avoid contamination during shipping and storing. Prior to application the packing is removed, and the anode is ready to be applied.

Advantages of Mapeshield I anodes

- Needs no anode wiring.
- Simple installation
- When correctly designed will give enough current in dry and arid environments.
- Pre-stressed or post-tensioned tendons will not be subject to hydrogen embrittlement due to acceptable operating potentials.
- Extremely suitable for patch repairs
- Current densities are naturally self-adjusting depending on the current required by the structure.
- When applied in aggressive environments the current densities are comparable with impressed current systems.
- Need no servicing or monitoring.



Sizes available:

- **Mapeshield I 10/10** -100mm x 50mm x 12mm
- **Mapeshield I 10/20** -100mm x 50mm x 15mm
- **Mapeshield I 30/10** -300mm x 50mm x 10mm
- **Mapeshield I 30/20** -300mm x 50mm x 12mm

Anode installation

Anodes should be securely fastened on the steel reinforcement bars so they will not move and loosen during the repair mortar application or concrete pouring. Ensure enough spacing is present between the anode and the existing concrete so the repair mortar or concrete can easily form around the anode and create a good adherence with the paste for sound electrolytic continuity between the anode and the concrete structure.

Normal Application

Mapeshield I anodes 30/10 or 30/20 : 3 anodes per m² concrete surface area

Mapeshield I anodes 10/10 or 10/20 : 4 anodes per m² concrete surface area

Packaging

Mapeshield I anodes 30/10 or 30/20 : 12 anodes per box

Mapeshield I anodes 10/10 or 10/20 : 24 anodes per box

Warehousing

Anodes should not be stored in areas with high temperatures, high relative humidity (RH), or for longer than 12 months. Preferably < 30°C and < 50% RH.

Technical Data

GSC SuperAnode		30/10*	30/20*
Dimensions	mm	300 x 50 ± 5%	300 x 50 ± 5%
Height	mm	10 ± 10%	12 ± 10%
Weight	g	450 ± 10%	570 ± 10%
Output per Anode	mA	3-5	3-5
Stock Conditions	-	<30 °C <50% RH	<30 °C <50% RH
Maximum Storage Time	Months	12 (original packaging)	12 (original packaging)
Outside Colour		Light blue	Light blue
Packaging	-	Vacuum packed	Vacuum packed
Tariff Number	-	7905 00 00	7905 00 00

GSC SuperAnode		10/10*	10/20*
Dimensions	mm	100 x 55 ± 5%	100 x 55 ± 5%
Height	mm	12 ± 10%	15 ± 10%
Weight	g	230 ± 10%	320 ± 10%
Output per Anode	mA	1-2	1-2
Stock Conditions	-	<30 °C <50% RH	<30 °C <50% RH
Maximum Storage Time	Months	12 (original packaging)	12 (original packaging)
Outside Colour		Light blue	Light blue
Packaging	-	Vacuum packed	Vacuum packed
Tariff Number	-	7905 00 00	7905 00 00

Key * = length in cm/expected life in years



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