



What is Mapeshield 1?

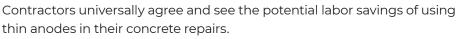
Mapeshield I is a pure zinc galvanic anode that prevents and stops corrosion of reinforcing steel within concrete structures by applying a low electrical current.

Mapeshield I is available in different sizes and lengths to optimize anode spacing and increase service life.

What are the unique features of Mapeshield I?

• Thinnest profile on the market: Bulkier anodes require the removal of additional concrete to ensure minimum cover requirements specified by the manufacturer. Some of the

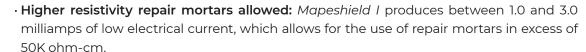
bulky anodes from competitors cannot be used in balconies due to thickness and space restraints. The thin profile of the *Mapeshield I* anode allows for its use in very shallow repairs.



• Multilayer zinc core: Mapeshield I anodes have a multilayer core that is coated with a conductive gel between each layer. This multilayer core provides a high surface area of zinc and increases the useful surface

area of zinc by as much as 4 to 5 times when compared with using a single mass of equivalent weight.

• Calculation software for design life and spacing: MAPEI is the only anode manufacturer that offers free design software to engineers. Our software considers exposure conditions, average annual temperatures and chloride levels for maximizing anodes and increasing service life of structures.



Where can Mapeshield I be used?

- · Parking garage repairs
- · Bridge decks and structures
- · Apartment and condo buildings
- · Pier and dock supports
- \cdot Any reinforced concrete member that is susceptible to corrosion
- · Retaining walls
- · Floor slabs
- Precast elements prior to pour



How should Mapeshield I be installed?

- Ensure that the reinforcing steel is clean and free of any corrosion and prepared to a nearwhite finish.
- · Verify electrical continuity of reinforcement with a multimeter before installing *Mapeshield I*. Resistance of up to 1 ohm or 1mV is acceptable.
- If continuity is not established, tie reinforcing bars with rebar tie wire to establish electrical continuity and confirm with a multimeter.
- •The leads on *Mapeshield I* should be tightly secured to the reinforcing bar by using a suitable metal "hose clamp" or a traditional rebar tie wire.
- Verify electrical continuity of the *Mapeshield I* anode to reinforcing steel with a multimeter before installing *Mapeshield I*. Resistance of up to 1 ohm or 1mV is acceptable.
- Fill the repair area with a repair mortar that is intended for the type and size of repair.



What are the limitations?

- Do not coat the anode wires or the location where the anode wires are going to be connected to the reinforcing steel.
- · Repair mortar surrounding anode to have an electrical resistivity below 100,000 ohm-cm.
- · Store Mapeshield I in a dry, cool area in its sealed packaging.

For product information not covered in this brochure, please contact MAPEI's Technical Services Department for assistance.

Before use of MAPEI products referred to in this product bulletin, consult the most current technical data at www.mapei.com.





MAPEI Headquarters of North America

1144 East Newport Center Drive Deerfield Beach, Florida 33442 1-888-US-MAPEI (1-888-876-2734) / (954) 246-8888

Technical Services

1-888-365-0614 (U.S. and Puerto Rico) 1-800-361-9309 (Canada)

Customer Service

1-800-42-MAPEI (1-800-426-2734)

Services in Mexico

0-1-800-MX-MAPEI (0-1-800-696-2734)

Copyright ©2024 by MAPEI Corporation ("MAPEI") and all rights are reserved. All intellectual property rights and other information contained in this document are the exclusive property of MAPEI (or its parent or related companies), unless otherwise noted. No part of this document may be reproduced or transmitted in any form without the prior written consent of MAPEI.

Printed in the USA.

