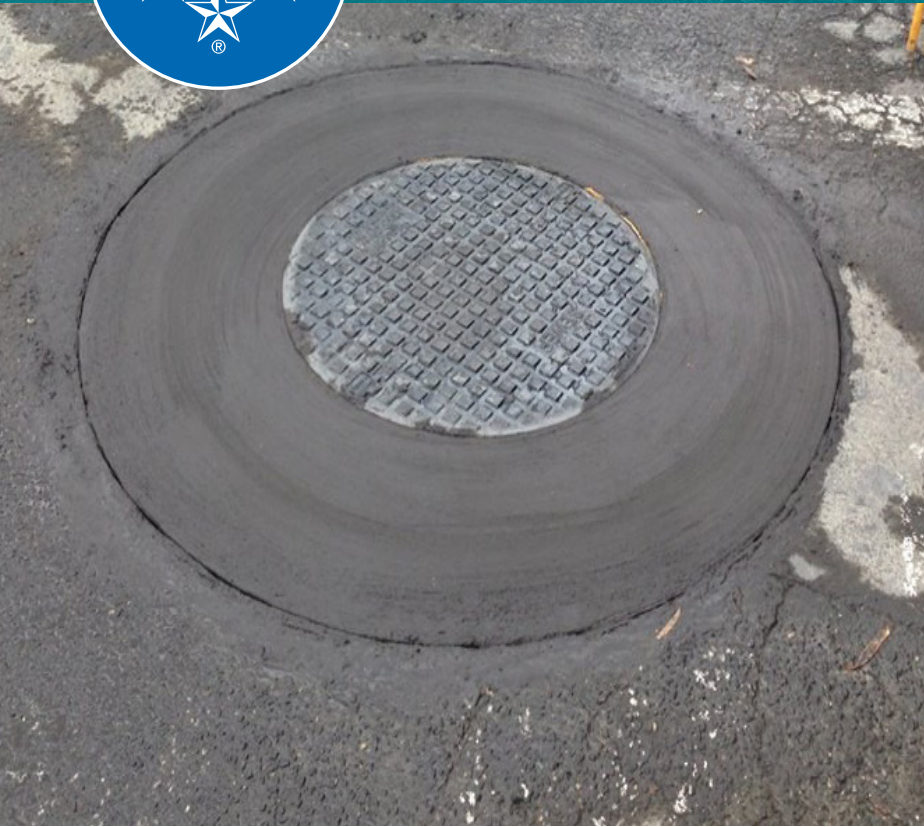




# SOLUTIONS | Case Study



Fast set times and substrate replacement around repaired manhole covers resulted in traffic-ready streets in under four hours.

## City of Greater Geelong Manhole Lid Repairs

Geelong Victoria, Australia

### Product:

Five Star® Highway Patch

For information 1-800-243-2206 • [FiveStarProducts.com](http://FiveStarProducts.com)



Build on our strength



# Geelong Manhole Lid Repairs



Manhole Excavation



Manhole Preparation



Five Star® Highway Patch placed to reinstate the substrate around manhole.



Completed manhole with Five Star® Highway Patch.

## Five Star® Highway Patch

### Traffic ready as soon as 2 hours after placement

A one component, fast setting hydraulic cement material ideal for horizontal repairs on concrete in traffic areas. Provides resistance to oil, grease, gasoline, salts and other chemicals found in the transportation environment.

- High early strength - 3,500 psi (24.1 MPa) in 3 hours
- One component/ease of use
- Freeze/thaw resistance
- Resistant to salts
- Cold weather installation

## FIVE STAR® SERVICES

- Design-A-Spec™ engineering specification assistance
- Technical on-call center with field and project experienced staff
- Field support representatives for on-site consultation
- Corporate research laboratory available to customize products for unique applications



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**Date of Project:** August 2018

**Project Owner:** City of Geelong, Victoria, Australia

**Project Contractor:** Barwon Sewer Restoration (Mr. Manhole)

**Project Engineer:** Barwon Water Board

**Market/Environment:** Infrastructure

**Substrate:** Prepared Concrete

**Size of Project:** 200 units

## The Challenge

The City of Greater Geelong, in conjunction with Barwon Water, contracted with Mr. Manhole to re-build, repair, and re-level approximately thirteen manhole chimney sections. The substrate around the repaired manholes needed to be reinstated. A fast setting cement repair material was required that would allow the area to be re-opened to traffic within a short time frame.

## Five Star® Solution

Periodically over the past several years, Mr. Manhole, a subsidiary of Barwon Sewer Restoration, has chosen Five Star® Highway Patch as part of their proprietary system due to its high early strength, as well as, its ease of placement. This allows the repaired manholes to be re-opened to traffic in under four hours.

Due to these previous successful placements, Mr. Manhole again chose Five Star® Highway Patch to reinstate the substrate around repaired manholes on Fairview Avenue and Retreat Road. Approximately two-hundred units were used for this project. According to Mr. Manhole, "Quality repairs are completed at a fraction of the time and cost of traditional methods" with Five Star® Highway Patch which continues to meet and exceed the requirements of the system.

Barwon Sewer Restoration has been servicing the market throughout Victoria, Australia for over 15 years and Five Star® is looking forward to many more years of successful collaborations.

For worldwide availability, additional product information and technical support, contact your local Five Star® licensee, distributor, local sales representative, or you may call the Five Star Products' Engineering and Technical Service Center at 1-800-243-2206.

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