



USED FOR



Waterproofing



Rutting



Ravelling



Pot Holes



Cracking

ENVIRONMENTS



Industrial



Rural



Residential



Motorway



Roundabouts
& Intersections



Airports



Ports



UltraMender

Tough + versatile polymeric binder for road repair.

UltraMender is a high-performance polymeric binder designed for the repair of common pavement and surface defects found within road networks.

Unlike traditional repair methods that often result in short-lived repairs, leading to costly and time-consuming repeated maintenance, UltraMender provides a long-term solution that prevents small issues from escalating into significant, expensive problems.

The UltraMender system leverages advanced polymer technology, allowing for application at ambient temperature, followed by rapid curing to form a tough, durable, plastic-like material. This versatility allows UltraMender to be used in a variety of ways, including hard-wearing sealant for surface protection, and patch repairs when mixed with local aggregates, forming robust, long-lasting repairs.

By pro-actively addressing defects before they become major issues, UltraMender significantly reduces future repair costs and extends the life of road infrastructure.

Treatment areas ideal for UltraMender

- Potholes
- Deformations
- Edge break
- Fatigue cracking
- Chip seal + asphalt pavements

Benefits

- Prolongs the life of weak pavements
- Easy to use
- Reduces the need for repeat repairs
- Excellent rut and crack resistance
- Three times stronger than asphalt
- Cold application
- Sets in minutes
- Versatile use

Handling

UltraMender must not be sprayed or heated. Avoid skin and eye contact.

| UltraMender | |
|-----------------------------|---------|
| Normal handling temperature | Ambient |
| Mixing binder temperature | Ambient |

Heating

UltraMender is used at ambient temperatures, do not heat.

Storage

Seal partially used packets from exposure to air. Store in a cool place and out of direct sunlight. Store away from acids, alcohols, oxidizing agents, moisture, and sources of heat or ignition. Keep dry, as UltraMender reacts with water and may lead to pouch rupture.

Application

Refer to the UltraMender '[How to use](#)' guide, or the '[How to](#)' video for application support

UltraMender is supplied in 2.5 litre bags. If filling in a deformation, mix ratio is 20 litres of grade 6 aggregate to 2.5 litres (1 bag) of UltraMender. 1 shovel of aggregate is approximately 2 litres.

| UltraMender Mix Ratio | | | |
|-------------------------|---------------|---------------|----------|
| Diameter of repair (mm) | Coverage (m2) | Aggregate (L) | Binder |
| 300 | 0.1 | 2 | 1/10 bag |
| 450 | 0.2 | 5 | 1/4 bag |
| 650 | 0.3 | 10 | 1/2 bag |
| 800 | 0.5 | 15 | 3/4 bag |
| 900 | 0.7 | 20 | 1 bag |

Equipment

Spray paint (to mark out treatment area). Use a hard bristle broom and a plastic bucket or wheel barrow to mix UltraMender and aggregate. Aggregate is to be used for deformation filling, sand or PAP for blinding. Ensure all equipment in contact with UltraMender is plastic for easier clean up.

Need more information?

At Road Science, we're committed to providing innovative solutions backed by engineering expertise. If you have any questions about this product, need technical guidance, or want to discuss how it fits your specific project needs, our team is here to help. Contact us today for expert advice and tailored support. Contact us via **0800 180 200** or visit our website at **roadscience.co.nz** to learn more.

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