



Spin-Cast GeoPolymer Lining

STRUCTURAL PIPE RENEWAL SYSTEM

Use the GeoCast™ Pipe Renewal system to rehabilitate and repair existing Corrugated Metal Pipe (CMP), Reinforced Concrete Pipe (RCP), brick pipe, brick manholes, storm water pipe culverts, tunnels and wastewater infrastructure.



As a **Sustainable Green Technology** the GeoCast™ Pipe Renewal system uses a patented spin-cast geopolymer lining technology. This high performance, fibre reinforced, corrosion resistant mortar is placed by centrifugally casting or using an air atomising shotcrete nozzle to apply the geopolymer liner.



GeoCast is a registered trademark of Standard Cement Materials Inc. GeoCast is exclusively manufactured under licence in Australia by Hychem International Pty Ltd. www.hychem.com.au



The GeoCast™ Process

The high performance geopolymer mortar with densified micro silica powder, flyash, pozzolanic materials and other select admixtures is designed for both new and existing CMP, concrete and brick pipes.

GeoCast™ is a proven trenchless technology. The use of Geocast Geopolymer structural linings will reduce service downtime and will rehabilitate existing structures with a design life of over 50 years.



Pre-installation cleaning and inspection is performed to identify pipe material, pipe size, pipe length and defects. High pressure water blast at minimum 4000psi is required for adequate removal of rust, dirt and laitance.



All active water leaks and infiltration is plugged and patched with Custom Plug® hydraulic cement. Chemical grout injection or flowable fill grout pumping may be used for filling large voids around pipe.



Depending on the pipe size and configurations, use either the GeoCast™ Pipe Renewal spin-cast head and sled or a low pressure, air atomising, wet shotcrete nozzle for applying a monolithic, geopolymer liner.

- ✓ Increase strength by over 100%
- ✓ Fast turnaround
- ✓ Anti corrosion – acid resistant
- ✓ Early strength and long term durability
- ✓ Proven for over 25 years
- ✓ Tenacious bond & low permeability



GeoCast™ Pipe Renewal is a Value Engineered Technology.
Manufactured with NSF International 61 Approved
ASSHTO HS-20 Certified
Meets ASTM C109, C78, C882, C666 and C496
GeoCast™ is wholly owned by Standard Cement Materials Inc.
MADE IN THE USA AND AUSTRALIA

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