

# GUNITE

We bring decades of experience and innovation to maintaining your infrastructure assets, so they operate at optimal capacity, no matter how hard.



## ● ACCESS ●

We have a team of highly trained experts accustomed to working safely in the most challenging environments, and have developed numerous technologies and techniques to do so efficiently.



## ● INSPECT ●

We know how to access infrastructure underground, at height and in confined spaces. As well as our technicians, we also use highly specialised drones and all-terrain pipeline robots for remote video and 3D mapping.



## ● REPAIR ●

We offer a full range of repair and remediation services to ensure the longevity of your infrastructure. This document looks at our concrete remediation activities.





## GUNITE SPRAYED CONCRETE; THE ADAPTABLE OPTION

**Gunite is concrete that is pneumatically applied using a hose and nozzle at pressure.**

It has many advantages and can be used for a much wider range of applications than traditional poured concrete.

- **Sculpting flexibility:** Sprayed concrete can be used in awkward, hard-to-access areas. It's easier to sculpt unusual shapes and designs compared to poured concrete. This makes it perfect for tunnels, bridges, road cuttings and more.
- **Strength:** Because of its pneumatic application, Gunite does not have any pockets or voids that poured concrete can have, forming an incredibly strong bond with any surface. To further enhance strength and ductility, it can be combined with steel fibre.
- **Reduced shrinkage:** compared to poured concrete, Gunite is less likely to crack
- **Lower permeability:** Gunite can better protect structures from steel corrosion than poured concrete
- **Superior application:** Gunite is sometimes confused with Shotcrete which is a wet-mix concrete, whereas Gunite is dry mix with the water added as it sprays. This allows the operator to control the amount of water that is being added as it is sprayed, offering more even distribution, better placement and optimal accuracy.

# METROCORP GUNITE SERVICES: UNSURPASSED EFFICIENCY

## Metrocorp's unique Guniting equipment range

Our equipment has been developed to offer unique application efficiency advantages. We are able to spray up to 1km from the machine – whereas most shotcrete is limited to within 200 meters. This creating less impact on the environment and community and enables us to treat a far bigger area on a single set up of the equipment.

## INDUSTRIES WE SUPPORT

Metrocorp works across all sectors of these industries, providing Access, Inspection and Repair services:

- Water, Wastewater, Stormwater
- Transport – Rail, Roads and Maritime
- Defence



## A HISTORY OF INNOVATION

Innovation has been our key to solving many of our clients most challenging asset maintenance problems. In a number of cases, we have only been able to undertake projects because of the innovative solutions we developed that met specific project requirements in safety, productivity, and cost efficiencies.

Wherever possible we deploy technologies and engineering solutions to reduce the number of workers required, or even in the case of drone and all-terrain pipeline robot inspections, remove personnel altogether.

## HSEQ ACCREDITATION

Our certifications demonstrate our commitment to delivering complex projects to the highest standards.

ISO 45001 Work Health and Safety

ISO 14001 Environmental

ISO 9001 Quality Management Systems



**Talk to us about accessing, inspecting and repairing your infrastructure assets to extend their operational life. No matter where, no matter how hard.**

**(02) 9540 3455**

[contact@metrocorp.com.au](mailto:contact@metrocorp.com.au)

51-53 Willarong Road, Taren Point NSW 2229