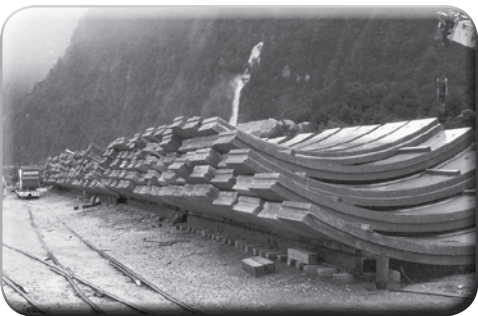


CASE STUDY

Waterproof Concrete



Meridian Energy Tailrace Tunnel Manapouri – Fiordland

MS600 was specified for abrasion resistance, improved durability and for concrete erosion resistance in the construction of the second tailrace tunnel for the Manapouri hydro-electric power scheme. The 10 km long, 10m-diameter tunnel was constructed in a rugged seismically active alpine area.

Increased power generation capacity at Manapouri was from 585 mW to a peak of 769mW. Microsilica 600 was used in shotcrete, precast concrete segments and in-situ concrete.



Auckland Student Accommodation

The architect required a natural finish to the concrete facades yet had concern over potential water egress into the building.

By including MS600 in the concrete mix the concrete's permeability was reduced two-fold and sorptivity reduced by 50%. The panels were Precast, 40 Mpa nominal strength with 8% MS600 dosage. Over 600 panels were used in the project.

MICROSILICA 600 APPLICATIONS & INFORMATION

Other Microsilica 600 applications for specialist concretes and high performance concrete are detailed in the following brochures:

- Industrial & Commercial Floors
- Marine Concrete
- High Strength Concrete
- Water Proof Concrete
- Shotcrete

Reference should also be made to the operational and safety requirements in the following documents:

- Chemical Resistant Concrete
- Health & Safety Data Sheet
- Concrete Mixing Instructions
- Concrete Placement & Finishing Procedures
- Plastic Properties of Microsilica 600 Concrete

Product Note

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Microsilica 600