

# Intercrete 4841

## Advanced polymer modified cementitious coating

**Intercrete™ 4841 is an advanced, waterproof cementitious coating for low concrete cover applications to poured in-situ concrete and pre-cast segments and potable water applications.**

It is a polymer modified, chemical and abrasion resistant cementitious coating used for general waterproofing and protection of concrete where cover over the reinforcement steel is low. In addition it has extensive track record for the waterproofing of structures above and below grade.

It is Portland cement based, incorporating pozzolanic technologies designed to minimize porosity and permeability thus maximizing physical characteristics, offering durable and long term protection to concrete substrates from chloride induced corrosion and carbonation.

- Excellent waterproofing capabilities – resists up to 10 bar (145 psi) positive and negative pressure
- 25 years successful track record
- Can be used on damp and green concrete ensuring rapid return to service
- High resistance to freeze thaw cycles from -36°C (97°F) to 180°C (356°F)
- 2mm (80 mils) coating provides concrete cover equivalent of 100mm (4") for resistance to chloride induced corrosion and carbonation
- Approved to EN1504-2 (Protective Coatings)
- Can be applied in tidal zones
- Due to its thixotropic nature, the application is easy and fast by brush, or airless spray techniques
- Zero VOC\*, water-based technology ideal for use in confined spaces
- Can be reinforced with Intercrete™ 4872 to accommodate movement of cracks and joints
- Multiple potable water approvals including being listed under DWI Regulation 31, AS/NZS 4020:2005, Western Australia Water Corporation and WRAS approval



# Simple application combined with leading protection

Intercrete™ 4841 is the ideal problem solving solution for protection and waterproofing of concrete substrates. Application to damp and even green concrete allows it to be applied in challenging environments where conventional coatings technology simply cannot.

## Key application areas:

- Waterproofing above and below ground
- Potable water storage
- Application in tidal zones
- Low cover protection
- Chloride and CO<sub>2</sub> protection
- Applications to damp and green concrete



## Technical information

Color	Grey
Volume solids	100%
Density	1800 kg/m <sup>3</sup> (112.37 lb/ft <sup>3</sup> )
Dry film thickness	2000µm (80 mils)
Voc's	0 g/l (0 lb/gal)
Drying time	2-3 hours typical @ 20°C (68°F)

## Test data

Compressive strength @ 28 days cure	BS 4551 @ 20°C (68°F)	40 MPa (5,800 psi)
Adhesion	ASTM D7234 Concrete	>2 MPa (substrate failure)
Reaction to fire	BS EN 13501-1	EUROCLASS A2-s1, d0
Water permeability coefficient	Taywood test	6.00 x 10 <sup>-16</sup> m/sec
CO <sub>2</sub> gas diffusion resistance coefficient	Taywood test	µCO <sub>2</sub> = 2,600,000
Equivalent air thickness value R @ 2 mm thickness	Taywood test	µCO <sub>2</sub> x S = 5,200 m
Chloride ion diffusion test	Technology centre	Steady rate of flux not achieved after 25 years

Performance data has been compiled based on present experience of in-service product performance and upon performance data obtained under laboratory test conditions. Actual performance of the product will depend upon the conditions in which the product is used.

\* Volatile Organic Compound

## Approvals

- DWI Regulation 31, AS/NZS 4020:2005, Western Australia Water Corporation, WRAS approval
- CE Marked in Europe in accordance with BS EN 1504-2 (Protective Coatings)

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