

## CONCRETE MIX DESIGN

**Radcon #7®** will meet or exceed its stated performance when applied to slag blend concrete or ordinary Portland cement type GP concrete; Type „C“ fly-ash replacement up to 30% of cement replacement. Type „F“ fly-ash is NOT suitable for use with **Radcon #7®** due to causing pozzolanic reactions in the concrete.

### LARGE OR STUBBORN CRACKS

Grind out and flood crack with product. A Calcium solution may be required to bulk up the product in large cracks. Fill with a non-shrink or polymer modified mortar; or revert to an elastomeric sealant if there is a possibility that the crack is „working“ or ‚volatile‘. In large cracks where the product runs through quickly, temporarily use waterproof tape on the underside to pond product in the crack.

### CURING COMPOUNDS

Water curing is preferred - minimum 7 days. PVA (Polyvinyl acetate) which biodegrades within 28 days is also suitable. Other materials such as chloro-rubber, resins, wax emulsions and acrylics are suitable but will

have to be removed by grit blasting or chemical wash to allow proper penetration of the product.

### LIMITATIONS

**Radcon Formula #7®** is not suitable for sealing working/volatile cracks as a result of structural defects or caused by mechanical damage. (see LARGE OR STUBBORN CRACKS)

The product is not suitable for sealing where segregation and voids are likely such as construction / pour joints. Not suitable around penetrations where there is a masonry / cementitious interface. (See ANCILLARY DETAILING RECOMMENDATIONS)

**Radcon Formula #7®** is not suitable for negative hydrostatic pressure applications such as the inside face of a basement/retaining wall which is constantly wet.

## PERFORMANCE CHARACTERISTICS

- Permanently seals existing cracks up to 2.00mm.
- Reseals future hairline cracking.
- Reduction of chloride diffusion coefficient by 89% to 3.5 (10,2 m<sup>2</sup>/s).
- Water permeability reduced by 70% to 5.0 (10,2 m/s) at 10kg/cm<sup>2</sup>,
- Increases surface hardness from 6 to 8 on Moh's scale.
- Reduces scaling in freeze-thaw environments by 89% at 50 cycles.

- Allows 84.1% moisture vapour permeability.
- Suitable for tanking applications (positive hydrostatic pressure) tested to 400 metres,
- Non Toxic – Certified suitability for potable water.

**Radcon Formula #7®** and **Radcrete8** are registered Trade Marks of Radcrete Pacific Ply. Ltd

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