

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®** as it causes 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.

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 m²/s).
- Water permeability reduced by 70% to 5.0 (10,2 m/s) at 10kg/cm²,
- Increases surface hardness from 6 to 8 on Moh's scale.
- Reduces scaling in freeze-thaw environments by 89% at 50 cycles.

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.

- 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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