

Overview

Modified sodium silicate solution, spray applied to cured concrete, that penetrates and reacts with concrete to form a sub-surface barrier, waterproofing the pores, capillaries and large cracks against the ingress of water and contaminants.



Product Description

Radcon Formula #7® is a modified sodium silicate impregnation sealant used to make concrete watertight, sealing large cracks (up to 2.00mm) and pores. The Radcon Formula # 7® reacts with calcium ions in the concrete to form calcium silicate hydrate gel. The reaction will harden the surface of the concrete; penetrate the concrete up to 20mm preventing the ingress of water, salts and other contaminants. *Radcon Formula #7®* maintains an autogenous healing capability thus being able to re-seal hairline cracking should this occur at some future time. The product is backed by a 20 year guarantee.

Radcon Formula #7® is spray applied to cured concrete, followed by a 3 day watering process that allows the formula to penetrate the surface of the concrete. There are no maintenance requirements to provide continuous watertightness for the life of the concrete.

Applications include all structural concrete, car parks, rooftops, bridge decks, potable water holding vessels, and commercial and residential bathrooms. It is certified by various international standards safe for use with potable water vessels.

PRODUCT SPECIFICATIONS

Options	Available in 2, 5, 20 & 200 litre polypropylene containers
Colours	Clear
Warranty	20 years
Expected Life	Life of the concrete to which it is applied
Indicative Costs	AUD\$15 to \$18 per m ² applied
Purchase Options	N/A
Constituents	Deionised Purified Water ~ 75% Sodium Silicates ~ 25% Proprietary Biochemicals ~ 0.5% Surfactants ~ Trace
Technical Specifications	Concrete Institute of Australia – Current Practice Note 28
National &	



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International Standards	<p>Singapore Institute of Standards and Industrial Research Potability</p> <p>Sydney Water Certificate of Approval – Products In Contact With Potable Water</p> <p>CSIRO Technical Assessment 193, Australia</p> <p>Hygiene Certificate, National Institute of Hygiene, Poland</p> <p>Ministry of Public Works Approval, Kuwait</p> <p>Certificate of Approval for Potability and Non Toxicity – Dept. of Health, Brazil</p> <p>Setsco Services, Singapore – approval for use with potable water ISO 9001</p>
Country of Origin	USA
Projects	<p>Yas Hotel, Formula 1 Track, Abu Dhabi – Rooftop – 5,000m² – 2009</p> <p>Bahrain City Centre - waterpark on top of shopping centre – 20,000m² – 2008</p> <p>Ferrara Plaza Shopping Centre, Portugal – 6,000m² – 2007</p> <p>Fiumicino Airport, Rome – car park – 35,000m² – 2005</p> <p>Rama VIII Bridge, Bangkok Thailand – Bridge deck and infills – 12,000m² – 2002</p> <p>Garden Island Fleet Base Wharf, Sydney – Wharf deck – 9,900m² – 2002</p> <p>Atlantic Park Aquarium, Norway – All concrete on the project – 3,000m² – 1999</p> <p>Palace of the Golden Horses, Mines City Hotel, Kuala Lumpur – Entrance podium, carpark roof slab – 30,000m² – 1998</p> <p>Hong Kong Freeway, K11a Prince Edward Road West, Hong Kong – Raised Freeway – 15,150m² – 1998</p> <p>Dover Parkview Apartments, Singapore – Rooftops, landscape areas, swimming pools, wet areas, tennis courts – 50,000 m² – 1997</p> <p>Mekong River Bridge between Laos & Thailand – Mid spans and construction joints – 1994</p>
Preparation	<p><i>Radcon</i> must be applied to fully cured, clean and very dry structural concrete, by an approved applicator at the rates specified. <i>Radcon</i> must be watered within 6 hours of application and 2 additional waterings over the next 2 days. Please see application manual available from manufacturer for more detailed application and preparation instructions.</p>



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ECOSPECIFIER LIFE-CYCLE ASSESSMENT

INTEGRATED DESIGN AND POLICY ISSUES

Radcon Formula #7® is a vapor barrier, allowing vapor to permeate through the walls, preventing the buildup of moisture between elements of the building envelope. It allows walls and roofs to breathe, thus preventing deterioration of materials from excessive moisture, rot and corrosion. Therefore not only does it increase durability of concrete itself, by reducing permeability of water and contaminants such as chlorides, but increase durability of other building elements and the structure as a whole.

Radcon Formula #7® is maintenance free, providing water-tightness for the life of the building, eliminating costs for repair or replacement of waterproofing membranes with inferior durability. The appearance of the concrete surface is unchanged, as Radcon is subsurface and therefore will not be affected by surface damage from sources such as vehicle traffic and other forms of abrasion.

HUMAN HEALTH

Health

Product does not adversely affect health in use. *RF#7* allows vapor to permeate through the walls and prevents the growth of toxic mould in enclosed spaces. Product is also safe to use with surfaces in contact with potable water as certified by various organizations and standards.

Comfort

Radcon Formula #7® is not a vapor barrier, but prevents the ingress of water therefore reducing humidity and eliminates dampness in building interiors, which can increase thermal comfort levels and controllability.

Indoor Environment Quality

Product is a water based solution and has no VOC content and has no impact on IEQ compared to other concrete waterproofing substances based on solvents, suspensions and polymers.

Electromagnetic Radiation

Not Applicable

Safety

Non-flammable, Non-toxic

Accessibility

Not Applicable



ECOLOGICAL QUALITY

Terrestrial

Emissions – Product may have limited emissions from sand and trona mining used in the production of sodium silicates. However, product increases the durability of concrete, thereby lowering the demand for new concrete and reducing emissions from the manufacturing of virgin materials.



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Physical – Product provides lifetime waterproofing and therefore reduces waste to landfills compared to assessment comparisons, such as latex membranes, which have limited lifetimes and often have to be removed and dumped in landfill before new membrane can be applied.

Aquatic

Emissions – No known emissions to aquatic ecosystems.

Physical – No known physical ecological impacts to aquatic environments.

Atmosphere

Greenhouse (GHG) – Product has low greenhouse gas emissions from manufacturing, efficient coverage properties (5m²/litre), and has the potential to indirectly reduce GHG by minimising maintenance requirements

Greenhouse intensity – The product has a Greenhouse intensity of 0.195 kgCO₂/litre (Figures provided by manufacturer)

Transport intensity – Product is manufactured in Minnisota, USA. GHG intensities for shipping product are shown below.

Product weight	Energy Intensity - Container Shipping	GHG Intensity - Container Shipping
6.5kg / per 5 Litres	0.000135 MJ / kg.km	0.000011 kgCO _{2e} / kg.km

Table below provides land transportation greenhouse intensity figures to help calculate the greenhouse gas intensity of land transportation from shipping port.

Light commercial vehicle	Rigid Truck	Articulated Truck
0.001451kgCO _{2e} / kg.km	0.000195kgCO _{2e} / kg.km	0.000069kgCO _{2e} / kg.km

Transport intensity figures sourced from Australian National Greenhouse Gas Inventory 1990, 1995 and 1999 and WWF International, Inland Navigations and Emissions, 2005.

Operational efficiency – Coverage of 5m²/litre, sealing cracks up to 2mm. The penetrated product remains reactive in the presence of water to provide increased autogenous healing capabilities to hairline cracking. Increases hardness of concrete surface, thus reduces surface wear. After correct application, no further maintenance is required to provide continuous water tightness.

Re-use Efficiency – Product remains in the concrete for life.

Toxics and Pollutants – There are no known toxic or pollutant impacts on the atmosphere.

Ozone Depletion – No



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Urban Heat Island Effects – Research shows that abrasions to concrete hardscapes can reduce the solar reflectance of the concrete. *RF #7* increases the hardness of concrete from 6 to 8 on the Moh's Hardness scale, thus greatly reducing abrasions and maintaining the solar reflectance of concrete surfaces. Typical grey concrete with Portland cement has an SRI of 35, and weathered concrete typically has an SRI around 20. In order for a surface to reduce heat island effect it must have a minimum SRI of 29, and use of *RF#7* can assist in maintaining the solar reflectance of concrete surfaces above this level.

Noise – No

Biodiversity

Product has limited impact on biodiversity from sand and sodium carbonate mining used to make sodium silicates. However, product improves durability of concrete and structures, therefore reducing need for replacement of materials that have high biodiversity impacts. Spills released into surface water are potentially harmful to aquatic life due to high Ph (11.7), however product will rapidly depolymerise to molecular species indistinguishable from natural dissolved silica.

RESOURCE DEPLETION

Resource Efficiency

The raw materials of sodium silicates are sand and sodium carbonate, which are both abundant resources.

Embodied Fossil Fuel Energy

The product has an Embodied Energy of 2.6MJ/litre (Figures provided by manufacturer)

Embodied Water

Product is approximately 75% water, and water is used upon initial application, however no water is required for maintenance.

Durability

Radcon Formula #7® increases the durability of concrete by reducing the permeability of concrete and preventing the ingress of water and contaminants. This lowers the impact of the freeze thaw process that can break up concrete, as well as reduces the amount of corrosion to reinforcement. *RF#7* has very high durability itself, remaining impregnated for the life of the concrete, and continuously reducing permeability in the presence of water by autogenously healing cracks

Reusability

Once in the concrete, it is there for the life of the structure and there is no waste or product to be reused.

Repairability

The penetrated product remains reactive in the presence of water to provide autogenous healing capabilities to hairline cracking.



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Design for Dematerialisation

Yes, provides water tightness for the life of the concrete without maintenance or replacement, as is common with other concrete waterproofing methods.

Design for Disassembly

Not applicable

Recyclability

Product does not affect the ability of concrete to be recycled. Product itself has no need to be recycled, remaining in the concrete for the life of the concrete.

Maintenance

None required

Product Takeback Scheme

No

Extended Producer Responsibility (EPR)

No

CORPORATE AND SOCIAL SUSTAINABILITY

Audits and Environmental Reporting

No

Convictions

No

Environmental Policy

No

Social Enhancement Programs

No

Technology Transfer Programs

No

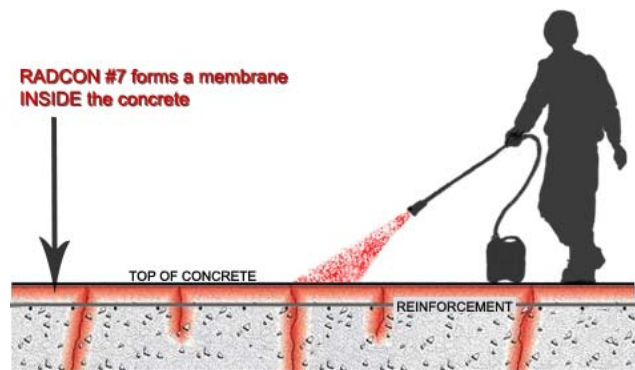
Environmental Management Systems (EMS)

No

ECOSPECIFIER ISSUES OF CONCERN / RED LIGHT

Issues of Concern

Sodium Silicates: Sodium Silicates have the following risk phrases: R22 harmful by ingestion, R37/38 irritating to respiratory and skin, and R41 risk of serious damage to eyes therefore care should be taken in application to prevent contact. Precautions for workers such as appropriate



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Personal Protective Equipment (PPE) will mitigate the risk of potential issues during application. This is not an issue once installed.

Proprietary Biochemicals: 0.5% of the constituents have not been identified by **ecospecifier**, however this percentage is small enough to allow a listing on **ecospecifier.com**

ECOSPECIFIER GREENRATE GREEN BUILDING SCHEME PRE-ASSESSMENT

The Pearls Design System for ESTIDAMA - New Buildings Rating Method

LIVEABLE BUILDINGS

<p>LBi-2.1: Material Emissions: Adhesives & Sealants</p> <p>Product may assist in a project obtaining credit point as an adhesive or sealant that meets the prescribed VOC limits in the South Coast Air Quality Management District Rule 1168.</p>	<p><i>Points Available</i></p> <p>1</p>
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RESOURCEFUL ENERGY

<p>RE-2: Cool Building Strategies</p> <p>Product may assist in a project obtaining this requirement by reducing external heat gain through the use of high solar reflective materials. Number of points awarded is determined by the percentage reduction in annual heat gain from the baseline. One point is awarded for the use of roofing materials with a Solar Reflectance Index (SRI) of at least 78.</p>	<p><i>Points Available</i></p> <p>6</p>
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STEWARDING MATERIALS

<p>SM-1: Non-Polluting Materials</p> <p>Product may assist in a project obtaining this credit for non-polluting materials to eliminate long-term negative impacts on human health and pollution of natural systems. 1 Credit point is awarded when all thermal insulation materials and blowing agents used in manufacture have an ODP of zero and a GWP less than 5. 1 Credit point is awarded for replacing of chlorine-based materials including PVC, in accordance with the prescribed proportions. 1 Credit point is awarded for elimination of products containing the following R-Phrases: R20-29, R31-33, R36-39, R 41, R43, R45-46, R48-65.</p>	<p><i>Points Available</i></p> <p>3</p>
<p>SM-6: Design for Durability</p> <p>Product may assist in a project obtaining this credit by minimising building impacts from condensation, water ingress, improper drainage and physically protecting vulnerable areas of the building envelope and surroundings. Credit point is awarded where a Building Durability Plan has been implemented to optimise the integrity of the building's internal and external envelope and can achieve the projected life with low maintenance.</p>	<p><i>Points Available</i></p> <p>1</p>



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BREEAM Issue 3

MATERIALS

Mat-4 Note 1 – Reuse of Building Structure

Product is likely to assist in a project obtaining this credit as it contributes to the reuse of the building structure. Credit point is achieved where either 50% (by area) of facade is reused in situ or 80% (by mass) is reused in situ.

Product may assist in a project obtaining credit point as it increase the durability of structural elements, thereby increasing the potential for building structure to be reused in future renovations and building projects.

Points Available

1

LEED® for Commercial Interiors - Version 3 (see disclaimer below)

INDOOR ENVIRONMENT QUALITY

EQ Credit 4.1: Low-Emitting Materials, Adhesives and Sealants

Product is likely to assist in a project obtaining this credit as it meets the prescribed standards for the relevant adhesive/s and/or sealant/s.

Points Available

1

LEED® for New Construction & Major Renovations - Version 3 (see disclaimer below)

SUSTAINABLE SITES

SS Credit 7.1 Note 1: Heat Island Effect: Non-Roof

Product is likely to assist in a project obtaining this credit as it reduces heat island effects to minimize impacts on microclimates and human and wildlife habitats. Credit point is achieved when the requirements for one of the two following options are met;

Option 1 Use a combination of the following (within 5 years of landscape installation) for 50% of hardscapes, provide shade from existing tree canopy, provide shade structures covered from solar panels, architectural devices or structures with a Solar Reflectance Index (SRI) of at least 29, hardscape materials with an SRI of at least 29, and an open-grid pavement system (at least 50% pervious) in accordance with prescribed requirements.

Option 2 includes placing a minimum of 50% of parking spaces under cover (any roof used to shade or cover parking must have a SRI of at least 29 or be covered with solar panels).

Product will contribute as an individual component, in combination with other suitable components, in meeting the requirements of one of the credit pathway options for SS Credit 7.1

Points Available

1



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MATERIALS AND RESOURCES

MR Credit 1.1 Note 2: Building Reuse – Maintain Existing Walls, Floors and Roof

To obtain this credit the project must maintain the existing building structure (including structural floor and roof decking) and envelope (the exterior skin) and framing, excluding window assemblies and non-structural roofing material). Credit points are achieved by the percentage of building reuse.

Product may assist in a project obtaining credit points as it increase the durability of structural elements, thereby increasing the potential for building structure to be reused in future renovations and building projects.

Points Available
3

INDOOR ENVIRONMENT QUALITY

IEQ Credit 4.1: Low-Emitting Materials: Adhesives and Sealants

Product is likely to assist in a project obtaining this credit as it meets the prescribed standards for the relevant adhesive/s and/or sealant/s.

Points Available
1

BCA Green Mark Landed Houses

ENERGY EFFICIENCY

1-11 Cool Hardscaped Areas

Product is likely to assist in a project obtaining credit points by reducing local heat island effect as a hardscape material or finish with a SRI value of 29 or more.

Points Available
2

Green Building Index Non-Residential New Construction v1

SUSTAINABLE SITE PLANNING AND MANAGEMENT

SM12 Greenery & Roof: Hardscape and Greenery Application

Product is likely to assist in a project obtaining credit points by reducing local heat island effect as a hardscape material or finish with a SRI value of 29 or more.

Points Available
2

National Australian Built Environment Rating System (NABERS) Compatibility

Product does not assist in the achievement of credit points in this rating tool.



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BASIX Building Sustainability Compatibility

Product does not assist in the achievement of credit points in this rating tool.

Green Star™ Office Interiors Version 1.1 Compatibility (see disclaimer below)

INDOOR ENVIRONMENT QUALITY

EQ-11: Volatile Organic Compounds: Adhesives and Sealants Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and sealants. To achieve credit points all adhesives and sealants used in the project must be in accordance with the prescribed standards.	Points Available 2
IEQ-13 Note 1: Volatile Organic Compounds: Adhesives and Sealants Product is likely to assist in a project obtaining a credit point as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and sealants. To achieve the credit point 95% adhesives and sealants used in the project must be in accordance with the prescribed standards.	Points Available 1

Green Star™ Office Design Version 3 Compatibility (see disclaimer below)

INDOOR ENVIRONMENT QUALITY

IEQ-13: Volatile Organic Compounds: Adhesives and Sealants Product is likely to assist in a project obtaining a credit point as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and sealants. To achieve the credit point 95% of adhesives and sealants used in the project must be in accordance with the prescribed standards.	<i>Points Available</i> 1
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Green Star™ Multi-Unit Residential v1 Compatibility (see disclaimer below)

INDOOR ENVIRONMENT QUALITY

IEQ-8: Volatile Organic Compounds: Adhesives and Sealants Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and sealants. To achieve credit points 95% adhesives and sealants used in the project must be in accordance with the prescribed standards.	<i>Points Available</i> 1
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Green Star™ Retail Centre v1 Compatibility (see disclaimer below)

INDOOR ENVIRONMENT QUALITY

IEQ-8: Volatile Organic Compounds: Adhesives and Sealants Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and sealants. To achieve credit points 95% adhesives and sealants used in the project must be in accordance with the prescribed standards.	<i>Points Available</i> 1
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Green Star™ Healthcare v1 Compatibility (see disclaimer below)

INDOOR ENVIRONMENT QUALITY

IEQ-8: Volatile Organic Compounds: Adhesives and Sealants Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and sealants. To achieve credit points 95% adhesives and sealants used in the project must be in accordance with the prescribed standards.	<i>Points Available</i> 1
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Green Star™ Education v1 Compatibility (see disclaimer below)

INDOOR ENVIRONMENT QUALITY

IEQ-8: Volatile Organic Compounds: Adhesives and Sealants Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard adhesives and sealants. To achieve credit points 95% adhesives and sealants used in the project must be in accordance with the prescribed standards.	<i>Points Available</i> 1
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Green Star™ Industrial Compatibility (see disclaimer below)

INDOOR ENVIRONMENT QUALITY

IEQ-8: Volatile Organic Compounds: Adhesives and Sealants Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and sealants. To achieve credit points 95% adhesives and sealants used in the project must be in accordance with the prescribed standards.	<i>Points Available</i> 1
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Green Star™ NZ – Office 2009

INDOOR ENVIRONMENT QUALITY

IEQ-3: Indoor Air Quality: Adhesives and Sealants	<i>Points Available</i>
Product is likely to assist in a project obtaining a credit point as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and sealants. To achieve the credit point 90% of adhesives and sealants used in the project must be in accordance with the prescribed standards.	1

Green Star™ NZ – Education 2009

INDOOR ENVIRONMENT QUALITY

IEQ-3: Indoor Air Quality: Adhesives and Sealants	<i>Points Available</i>
Product is likely to assist in a project obtaining a credit point as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and sealants. To achieve the credit point 90% of adhesives and sealants used in the project must be in accordance with the prescribed standards.	1

Green Star™ NZ – Industrial 2009

INDOOR ENVIRONMENT QUALITY

IEQ-3: Indoor Air Quality: Adhesives and Sealants	<i>Points Available</i>
Product is likely to assist in a project obtaining a credit point as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and sealants. To achieve the credit point 90% of adhesives and sealants used in the project must be in accordance with the prescribed standards.	1

Green Star™ NZ – Office Interiors 2009

INDOOR ENVIRONMENT QUALITY

IEQ-3: Indoor Air Quality: Adhesives and Sealants	<i>Points Available</i>
Product is likely to assist in a project obtaining a credit point as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and sealants. To achieve the credit point 90% of adhesives and sealants used in the project must be in accordance with the prescribed standards.	1

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Green Star™ SA – Office V1

INDOOR ENVIRONMENT QUALITY

EQ-13: Volatile Organic Compounds: Adhesives and Sealants Product is likely to assist in a project obtaining a credit point as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and sealants. To achieve the credit point 95% of adhesives and sealants used in the project must be in accordance with the prescribed standards.	<i>Points Available</i> 1
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Green Star™ SA – Retail V1

INDOOR ENVIRONMENT QUALITY

IEQ-13: Volatile Organic Compounds: Adhesives and Sealants Product is likely to assist in a project obtaining credits as it meets the prescribed Volatile Organic Compound (VOC) content standard for adhesives and sealants outlined in Table IEQ-13.2. To achieve credit points 95% adhesives and sealants used in the project must be in accordance with the prescribed standards or no adhesives or sealants are used.	<i>Points Available</i> 1
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ASSESSMENT COMPARISON

Latex, rubber, and epoxy concrete waterproofing membranes

KEYWORDS / ALTERNATIVES

Waterproofing, autogenous healing, watertightness, high durability, sodium silicates, silanes, impregnation sealant, water sealant

RELATED TOPICS

Waterproofing membranes, Durability

RELATED KNOWLEDGE BASE ARTICLES

CSI / SPECPACK CATEGORY & NUMBER

07 16 00 Cementitious and Reactive Waterproofing

NBS CATEGORY & NUMBER

Building and Residential Services

C42 Repairing/ Renovating/ Conserving concrete
J30 Liquid applied tanking and damp-proofing
J31 Liquid applied waterproof roof coatings



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Landscaping

J30 Liquid applied tanking and damp-proofing

J31 Liquid applied waterproof roof coatings

ASSESSMENT CRITERIA SATISFIED

WORKPLACE OH&S, OCCUPANT HEALTH, HUMAN WELL-BEING	
x	Low/Reduced offgassing
x	Reduced, or no toxicity/ carcinogens/mutagens/teratogens or ionizing agents through life cycle
HABITAT & BIODIVERSITY CONSERVATION	
x	Reduced terrestrial impacts
x	Reduced aquatic impacts
AIR POLLUTION	
x	Reduced smog-forming potential
x	Reduced urban heat island potential
RESOURCE DEPLETION	
x	Durability
OTHER VITAL SIGNS	
x	Material Safety Data Sheet (MSDS)
x	Quality Management System
x	Documented manufacturer claims
x	Expert Assessment

MANUFACTURER DETAILS

Company Name: Radcrete Pacific Pty Ltd, O Box 367, Double Bay NSW 1360, Australia

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Fax: 61 2 9362 3244

Email: sales@radcrete.com.au

Web: www.radcrete.com.au

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