

**Instructions to Specifier.**

Append the following Specifications and Drawings to tender and contract specifications.

# **RADGUARD**

**CONCRETE & MASONRY WATER REPELLENT**

<b>RADGUARD® CONCRETE &amp; MASONRY WATER REPELLENT</b>
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## **1 GENERAL**

### **1.1 SCOPE**

This specification describes a water repellent system by means of a solution that penetrates and integrates with the concrete surface.

Proprietary item: Radguard.

Supplier: Radcrete Developments Pty Ltd.

### **1.2 RELATED DOCUMENTS**

Refer drawings, Preliminaries, Bill of Quantities, General Requirements, and general provisions of the contract.

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## **2 QUALITY**

### **2.1 SUBMISSIONS**

#### **Approval before application**

Prior to application submit a detailed statement describing the Water Repellent system to be applied for approval.

#### **Inclusions**

Include literature, details, samples, warranties and the like in the submission as required.

Provide the manufacturer's or nominated agent/distributors written acceptance and approval of the intended system required.

### **2.2 QUALITY ASSURANCE**

#### **Approved applicators**

Use applicators approved and licensed by the manufacturer or their nominated agent/distributor.

#### **Site inspection**

The approved applicator must inspect the site prior to commencement of application of the system, for purposes of reviewing related conditions affecting the performance requirements of this specification.

#### **Safety**

The site foreman/supervisor shall sight and understand the site specifications and product datasheets.

All products described in this section must be used with adequate personal protection as recommended by the Material Safety Datasheet which accompanies each product shipment.

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## **3 MATERIALS AND COMPONENTS**

### **3.1 MATERIAL**

#### **General**

Water based alkyl silane water repellent liquid.

**4.1 APPLICATION AND SUPERVISION**

**General**

Install the system in accordance to manufacturers' published recommendations.

**Personnel**

Employ trained applicators.

**Tools and equipment**

Use proper tools and equipment and working under the direct supervision of a technically competent and experienced supervisor.

**4.2 SURFACE PREPARATION**

Surfaces to be impregnated shall be sound, air-dry and clean. Surfaces shall be free from loose or deleterious matters and residues, curing membranes and release agents.

**4.3 ENVIRONMENT CONDITIONS**

Do not apply the material -

- When ambient temperatures are below +3°C or above +35°C.
- When rain is imminent (ie within 6 hours).
- In high wind conditions or direct sunlight.

**4.4 APPLICATION**

**Rate:** Saturate surface by applying one flood coat at an application rate of 1litre per 5 sq.m. Although depending on the porosity of the surface, coverage may vary from 2.5-10 sq.m. per litre.

**Method:** A continuously circulating airless pump system with a large bore wand plus a mozzle with a 60° fan tip, providing a nozzle pressure not greater than 70kPa shall be used to apply the material.

**Continuous Spraying:**

- Must remain a liquid film for 10 seconds.
- Horizontal Surfaces - must have a mirror like “wet look” for 1 minute.
- Vertical Surfaces – a 350mm reflective flow must be visible.
- Remove excess Radguard after 5 minutes.