

### General information

1. Radmyx Concentrate – Used as an admixture
2. Radmyx Ready Made – Used for Surface Applied Slurry Coat
3. Radmyx – Application Instructions.

### Product name

Radmyx™ Concentrate Capillary Waterproofing System

### Description

Radmyx™ Capillary Waterproofing System is a complete system to waterproof below grade applications such as basements and water holding structures.

Through the process of osmosis the active chemicals in Radmyx™ react with the hydration products of cement to create a continuous barrier of insoluble crystals deep within the capillary structure of the concrete. These crystals block the passage of water whilst permitting the transmission of air and water vapour, enabling the structure to breathe.

Radmyx™ is equally effective against positive or negative water pressure.

Full waterproofing is normally achieved 5 – 7 days after application. After the crystallisation process has successfully waterproofed the structure the active chemicals in Radmyx™ remain dormant in the concrete. Any later contact with water will reactivate the sealing process.

### How To Apply

Radmyx™ can be applied as either an admixture in the concrete truck or as a surface applied slurry coat – see separate data sheets for information.

### Applications

- In-situ Concrete Basements
- Lift Pits
- Core-filled Blockwork
- Canals
- Tunnels
- Reservoirs
- Dams

### Key Benefits

- Long-term performance - No re-application or future maintenance required
- Fast Backfilling - Backfilling operations can be undertaken immediately after forms are stripped
- No Protection Required - Protection boards and drainage cells can be eliminated because there is no risk of damage during construction or thereafter.

- Fault Finding - If shrinkage cracks develop - easy to find and repair using Radmyx™ Slurry & Mortar. No lifting of membranes required.
- Efficient - Compresses construction timetable since waterproofing can be either done from positive or negative side

### Maintenance

None required.

### Guarantees

10 year guarantees for Radmyx™ treated areas are available where approved applicators are used and in appropriate situations. Contact the manufacturer for further information and confirmation of suitability.

### Limitations

Radmyx™ is not suitable for waterproofing above ground applications or applications exposed to thermal stress where cracks are in excess of 0.3mm. Use Radcon Formula #7 for such applications

Radmyx™ is not suitable for waterproofing dynamic cracks or movement joints. Use elastomeric joint sealant for these applications.

### Packaging

- 5 kgs Pails
- 180kgs metal drums

### Shelf life & storage

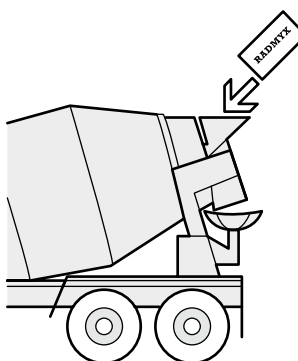
Radmyx™ Concentrate maintains an unlimited shelf life in sealed containers.

### Specification

See our website for specification download.

### 1. Radmyx™ CONCENTRATE - Used as an Admixture

**Radmyx™ Concentrate is a powder added to the concrete truck.**



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### Addition to concrete

- 0.78 kgs per cubic meter of concrete mix
- It is preferable for Radmyx™ Concentrate to be evenly distributed through the dry mix at the batching plant or prior to adding water to the concrete truck.
- If added to the concrete truck after water has been added, ensure that the truck continues to mix the concrete for 10 minutes prior to placement of concrete.

### Application

- Radmyx concentrate can have a plasticising effect and may cause an extension of set times. The amount of extended set will be affected by mix design, climatic conditions etc. Consideration should be given to the reduction or removal of admixtures that retard such as plasticisers, water reducing admixtures etc. If in doubt, trial mixes should be carried out to determine accurate set times.
- The Radmyx data sheet entitled "Application Instructions" should be read in conjunction with the above for important information regarding joint sealing, crack repair etc.

## 2. Radmyx™ Readymade - Used for Surface Applied

### Radmyx used for Surface Applied



*For use in surface applications, Radmyx Concentrate should be mixed into a "Readymade" form in the following ratios:*

	Percentage	Mass
Radmyx Concentrate	13%	5 kgs
Hydrate Lime	10%	3.85 kgs
Glass grade 0-600 um Silica sand	39%	15 kgs
GP (General Purpose) Cement	38%	14.61 kgs
<b>Total</b>	<b>100%</b>	<b>38.46 kgs</b>

**Mix Thoroughly.**

### Application to **WALL**

1. Mix Radmyx Concentrate into Radmyx Readymade as described on this data sheet.
2. Mix Radmyx Readymade into slurry at the rate of 1 water : 2.25 – 2.5 powder by volume

### Application Rates

1. Apply Radmyx Readymade at the rate of 1 kg per square metre (m<sup>2</sup>) per coat.
2. Two (2) coats are required.

### Application to freshly poured **FLOOR SLAB**

1. Mix Radmyx Concentrate into Radmyx Readymade as described on this data sheet.
2. Apply as a sprinkle coating onto freshly placed concrete.

### Application Rates

1. Sprinkle onto freshly placed concrete slab at the rate of 0.8 kg per square metre (m<sup>2</sup>)

## 3. Radmyx™ SURFACE APPLIED – Application Instructions

### Application to concrete wall

1. Mix Radmyx Concentrate into Radmyx Readymade as described on the data sheet Ready Made – "Used for Surface Applied".
2. Mix Radmyx Readymade into slurry at the rate of 1 water : 2.25 – 2.5 powder by volume.
3. Add water to Radmyx™ NOT Radmyx™ to water.
4. Only mix sufficient Radmyx™ that can be used in 20 minutes.
5. Apply at the rate of 1 kg per square metre (m<sup>2</sup>) per coat
6. Two (2) coats are required

### Application Technique

- Surfaces must be free from dust, oil, grease, paint, residual curing compounds, form release oil or any previous surface treatment that will impair adhesion of Radmyx Readymade
- Remove any laitance and provide a slightly rough, open pored surface sufficient to act as a mechanical key. This is essential for adequate adhesion the Radmyx Readymade.
- Only mix sufficient Radmyx™ that can be used in 20 minutes
- Dampen surface prior to application.
- Applied by brush or spray onto the dampened substrate.
- Apply 2 coats at right angles, the 2nd coat whilst the first is firm, but 'green' - usually 3-4 hours after first coat (dependant on temperature).
- If 2nd coat is done the following day – dampen with water before applying the second coat.

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- After application, protect Radmyx™ from sun & ponding water for 4 days.
- Radmyx™ should be sprayed with a fine mist of water 3-4 times a day for 4 days to assist curing & penetration.
- Clean tools and equipment immediately after use. Use of plastic or rubber containers is recommended.

### Application on to floor slab

1. Mix Radmyx Concentrate into Radmyx Readymade as described on the data sheet Ready Made – Used for Surface Applied”.
2. Apply as a sprinkle coating onto freshly placed concrete at the rate of 0.8 kg per square metre.
3. Trowel into fresh concrete.
4. If extra protection is required under the slab an additional sprinkle coating can be sprinkled throughout the reinforcement just before casting the slab. Even if this is done, the product **MUST** be sprinkled on top of the slab.

### Cold Joints (New)

The joint should be formed by a vertical stop board during construction. Use a Bentonite Waterstops such as Volclay RX and Radmyx™ Slurry as a dry shake on the joint face prior to pouring the subsequent concrete.

### Cold Joints (Existing)

Where the joint leaks repair similar to crack or void/ honeycomb.

### Penetrations (New)

Use Bentonite Waterstops as a wrap around the penetration during construction.

### Movement Joints - Responsibility of others.

#### Cracks

1. Identify static cracks over 0.3 mm that must be chased out and repaired.
2. Chase out to a depth of 30 - 40mm
3. Dampen with water
4. Prime with Radmyx™ Slurry
5. Laminate in 30mm layers with Radmyx™ Mortar until the crack is filled

### Voids & Honeycombing

1. Hack out until solid concrete is found
2. Dampen with water
3. Prime the area with Radmyx™ Slurry
4. Laminate Radmyx™ Mortar in 30mm layers until the void is filled

### Plugging Leaks

Leaks and holes drilled to relieve water pressure are sealed permanently using a plugging compound of Radmyx™ Slurry mixed with Radcon Formula # 7.

To plug leaks under pressure:

1. Chase out the area of the leak until water flow is free and insert a length of plastic hose.
2. Seal the plastic hose with plugging compound as above.
3. Clean the cavity and apply a coat of Radmyx™ Slurry and when tacky, fill the cavity with a Radmyx™ Mortar and allow to cure.
4. When surrounding waterproofing is complete, withdraw the hose and plug the hole with plugging compound using a gloved thumb to hold it in place until set (approximately 1 minute).
5. Fill the remainder of the hole with Radmyx™ Mortar. When the mortar has set, complete the waterproofing, lapping slurry coats onto the concrete surrounding the hole.

Holes under low pressure can be similarly sealed, but pipe insertion and removal is omitted.

### Radmyx™ Mortar

**Mixing: Mix sufficient water to achieve a mortar consistency**

**Rate: Use as required.**

Technique:

1. Dampen Surface prior to application.
2. Laminate in layers no more than 30mm thick.

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Radmyx & Radcon Formula #7 is a trademark of Radcrete Developments Pty Ltd. & Radcrete Pacific Pty Ltd

Specification details may change without notice.

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