



# TECHNICAL DATA

## Eziseal Waterproofing Render

### *Cementitious Waterproofing Surface Treatment*



#### Description

**Eziseal Waterproofing Render** is an economical cement based waterproofing material which may be applied as a surface treatment on concrete, render and block work both internally and externally.

**Eziseal Waterproofing Render** provides deep pore sealing and permanent protection against fresh and salt water under pressure and can withstand hydrostatic pressure, making it suitable for applications such as basement walls subjected to water pressures of up to 50 psi. The waterproofing action of **Eziseal Waterproofing Render** can be reactivated by further contact with water and thus provides additional dormant protection, making it ideal for applications such as irrigation channels, dams and retaining walls.

#### Areas of Application

- Water retaining structures
- Shafts and Tunnels
- Below ground structures
- Basements
- Manholes
- Lift shafts
- Retaining walls

#### Features

- Effective waterproof protection from the elements
- Resists hydrostatic pressure – especially below ground applications
- May be used as a final coat in lieu of a decorative painting finish
- Effective waterproofing – inside and outside
- Provides additional dormant protection
- Has no toxic effect on drinking water
- Provides deep pore sealing of the substrate
- Easy to apply

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The information contained in this Technical Bulletin is as up to date and correct as possible as at the time of issue. The data provided should be used as a guide only as the performance of the product will vary depending on differing operating conditions and application methods.

The sale of any product described in this Technical Bulletin will be in accordance with ITW Polymers & Fluids Conditions Of Sale, a copy of which is available on request. To the extent permitted by law, ITW Polymers & Fluids excludes all other warranties in relation to this product.

## General Properties

Shelf Life	: 12 months unopened
Appearance	: Grey powder
Density	: Approx. 1.6 Kg/ltr
Work Time	: 15 minutes @ 25 °C
Initial Set	: 2 hours @ 25 °C
Application Temperature	: 5 °C – 35 °C
Bond Strength	: >1.2 MPa
Maximum Water Pressure	: 345 kPa (50 psi) (CSIRO)

## Estimating Data

Yield: Approximately 12 litres per 20kg bag.

### Brush Applied:

- Concrete to be back-filled : 1<sup>st</sup> coat 0.75kg / m<sup>2</sup> per coat (coating)  
2<sup>nd</sup> coat 1.0kg / m<sup>2</sup> per coat (coating)
- Water retaining structures : 1<sup>st</sup> coat 0.75kg / m<sup>2</sup> per coat (coating)  
2<sup>nd</sup> coat 0.75kg / m<sup>2</sup> per coat (coating)
- Concrete slabs: 1<sup>st</sup> coat 0.75kg / m<sup>2</sup> per coat (coating)  
2<sup>nd</sup> coat 0.75kg / m<sup>2</sup> per coat (coating)

## Application Directions

### Surface Preparation

- The concrete surface to be coated must be solid and clean with an 'open' surface, i.e. no loose particles, dust or any coatings of paint on the surface.
- Prepare concrete surfaces to remove all laitance, grease, paint and corrosion. Use high-pressure water blasting or grit blasting. Provide mechanical 'keys' where possible.
- Any exposed defects should be repaired before coating with **Eziseal Waterproofing Render**.
- Areas of flowing water must first be sealed with Epirez **Waterproof Plug**.
- Prior to the application of **Eziseal Waterproofing Render** the substrate should be pre-wet using water to obtain a saturated surface dry condition.
- Mix **Eziseal Waterproofing Render** with up to 3% by weight with coloured iron oxides if a Colour is required.

### Mixing

- Mix **Eziseal Waterproofing Render** in a plastic container with clean water and the supplied flexibiliser.
- Use a mechanical mixer and mix for 2 to 3 minutes. (Do not over-mix)
- Mix only as much material as can be used within the **15 minutes working time**. Stir frequently during application. If the material starts to set, **do not** retemper by adding water. Simply remix to restore workability but do not exceed the 15 minute pot-life.
- Mix **Eziseal Waterproofing Render** with 29% water by weight and the flexibiliser supplied i.e. a total of 5.8 litres of clean water mixed with 0.2 litres of the flexibiliser.
- Do not exceed the maximum of 5.8 Litres of water and 0.2 Litres of flexibiliser per 20kg bag.**

### Application

The ideal working temperature is 15 °C – 25 °C.

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#### AUSTRALIA

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#### NEW ZEALAND

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## Application as a Slurry/ Coating

- Apply **Eziseal Waterproofing Render** to pre-moistened concrete only.
- Apply **Eziseal Waterproofing Render** in two coats using a short-haired nylon fibre brush, which makes it easier for the coating to fill all pores and cavities.
- Apply a thick layer to form a continuous and uniform coating. (Do not spread as if it were a paint).
- Two coats should be applied to ensure correct and adequate sealing of the surface. The second coat should be applied before the first coat has had time to completely cure, i.e. within 60 minutes.
- Apply in one direction only. Once completed, apply the second coating in the opposite direction i.e. perpendicular.

## Curing

- Treated areas should be kept damp for 5 days and protected from direct sun, wind or frost by covering with black polyethylene plastic sheeting.
- Curing times are dependent on ambient and mixing water temperature. In extreme temperatures adjust water temperature to suit, i.e. hot conditions use cool water and likewise in cool conditions use warm water.
- Cure time : 2 hours at 25 °C.

## Cleaning

Clean tools and equipment immediately with water after use before it hardens. Hardened material can only be removed mechanically.

## Limitations

- **Eziseal Waterproofing Render** is not suitable for use on non- cementitious substrates.
- Do not apply the coating on a gypsum plaster base.
- Do not apply on outdoor surfaces if rain is expected within four to six hours of application.
- Do not apply on frozen or frosted surfaces.

## Storage and Shelf Life

**Eziseal Waterproofing Render** should be stored in a cool dry place. Do not expose bags to sun. Shelf life is 12 months in unopened bags.

## Packaging

**Eziseal Waterproofing Render** is available in 20kg bags that include 200ml of the Flexibiliser in a plastic bottle within each bag.

## Ordering Information :

20kg #991611

## Safety Precautions

**Eziseal Waterproofing Render** is non-toxic, but alkaline in nature. Gloves should be worn. Splashes to the skin or eyes should be washed off with clean water. In the event of prolonged irritation, seek medical advice. Keep contents away from children.

**TDG Code** : Not Classified

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## Note

The figures quoted for work time, tightening time, loading time and hardening time are not definitive. They are dependent on job site conditions and will vary accordingly. In all cases we endeavour to provide typical figures for use as a guide.

## Health & Safety Information

The product is hazardous. A Material Safety Data Sheet is available from the ITW Polymers & Fluids Technical Department upon request or available on our website [www.epirez.com.au](http://www.epirez.com.au).

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