

RTU45

High-Performance Fibre-Reinforced Concrete Mix



DESCRIPTION

RTU45 is a high-performance, fibre-reinforced concrete mix designed to set quickly in 35–45 minutes. It is crack resistant, shrink resistant, efflorescence resistant and highly resistant to Chloride Ion attack, providing superior durability for a wide range of construction applications.



KEY FEATURES

- Fast setting: 35–45 minutes
- Basalt fibre reinforced to provide improved toughness, stability, and rapid strength gain
- Crack and shrink resistant
- Resistant to Chloride Ion attack, and efflorescence.
- High early and final compressive strength
- Suitable for construction and repair applications, including sign posts, foundations, pathways, manholes, manhole benching, and marine environments.
- Meets and exceeds NZS 3109 & NZS 3101:2006



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HEALTH AND SAFETY

RTU45 is a cement-based product and contains no additional aggressive additives.

Wear suitable PPE including gloves, dust mask, and eye protection during use.

Refer to packaging for full Health & Safety information.

APPLICATION

Directions for Use

Mix RTU45 thoroughly and evenly with 4.5 litres of clean potable water per 30 kg bag. Mix until a smooth, workable consistency is achieved. Do not add excess water, as this may weaken the product. Place the material into position. Allow approximately 15 minutes before final trowelling.

Conditions of Use

Ambient temperature affects setting and curing time. Best applied between 7°C and 25°C. Water content will influence working time and strength development.

PACKAGING AND STORAGE

Supplied in 20kg and 30 kg weatherproof bags.

Shelf life: Approx. 3 months when stored in cool, dry conditions.

Keep dry and protected from moisture.

DISCLAIMER

Technical details and recommendations are based on our best knowledge and experience. The user must ensure suitability for the specific project before application, and is fully responsible for the product's use and its consequences.

TECHNICAL DATA

Compressive Strength	<ul style="list-style-type: none">• 7 days: > 20 MPa• 28 days: > 30 MPa
Set Time	35 - 45 minutes
Yield	<ul style="list-style-type: none">• 20kg bag: approx. 0.012m³• 30kg bag: approx. 0.018 m³
Coverage (per 30kg bag)	1.00 m × 450 mm × 40 mm area
Suitable Temperature Range	7°C – 25°C
Chloride Ion Resistant	Yes
Crack Resistant	Yes
Shrink Resistant	Yes
Efflorescence Resistant	Yes
Material Composition	Fibre reinforced concrete mix (Basalt fibres)
Standards Compliance	Meets/exceeds NZS 3109 & NZS 3101:2006



Contact our Technical Department for further information and expert guidance on your application.

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