

Technical Data Sheet

Rapid Stop

Ultra Fast Setting Repair Mortar



Product

Rapid Stop is an ultra fast setting modified high early strength shrinkage compensated precision repair mortar.

Description

Rapid Stop is a high performance very fast setting modified repair mortar with good adhesion properties to cementitious substrates to impart water tight repairs that improve with age. Rapid Stop is supplied as a ready to use dry powder requiring only the addition of a controlled amount of clean water to produce a soft/stiff paste for the repair and containment of water in cementitious or masonry structures.

Recommended Uses

- Caulking of joints and pipes under damp/wet conditions.
- General purpose fast setting grouting under damp/wet conditions.
- Filling in and repairs in blockwork or concrete under damp/wet conditions.
- Grouting of packing under water.
- Applications requiring very fast setting under damp/wet conditions.

Features & Benefits

- Shrinkage compensated while in the hardened state.
- Very fast setting with high strength.
- Improved adhesion qualities provides water tight repairs.
- Excellent workability.
- Can be moulded or trowelled.
- Ready to use requiring only the addition of water.

Performance Properties

Typical Compressive Strength

Tested in accordance with AS1012.9 at 20°C

Age	Compressive Strength
1 day	>5 Mpa
7 days	>40 Mpa
28 days	>50 Mpa

Typical Bond Strength

Tested in accordance to ASTM C882

Age	Strength
7 days	>5 Mpa
28 days	>10 Mpa

Typical Setting Times

Vicat setting times 20°C

	Mouldable
Initial/ Final Set	1-2 minutes
Bleeding	0%

Approximate Water Requirement

Up to 4 Litres of water

Approximate Water Requirement for Small Batches

Weight of Powder In Kg	Approximate Water for Trowellable Consistency
1	200 ml
2	400 ml
3	600 ml

Packaging

Rapid Stop is supplied in a 20kg polylined bag.

Application Instructions

Substrate and Surface Preparation

The substrate surface must be clean, sound and free from oil, grease, algae, slime or staining. The substrate must be abraded back to sound concrete. The substrate must be cut or shaped so as to lock the newly hardened material in place.

To avoid high surface temperatures, it is advised to shade areas before and during the period of application of Surecrete Patch.

Mixing

Rapid Stop is supplied in a ready to use form requiring only the addition of clean water. For optimum results it is essential that mixing be confined to small quantities, 1-3kg and that hand or mechanical stirring be employed until the desired consistency has been achieved. Setting will proceed quickly after mixing has ceased.

DO NOT RETEMPER ANY SET OR SETTING MATERIAL. DISCARD ANY UNUSED OR SET MATERIAL

Pre-soaking

Rapid Stop is designed to perform in damp or wet conditions.

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Low Temperature Working

At low temperatures the setting characteristics of Rapid Stop will be extended. Depending on the application requiring repair or containment, an application delay may be required before applying the material. Heating or pre-soaking of the Rapid Stop powder, or the use of 30 °C maximum, mixing water can be adopted to vary the setting characteristics at low temperatures below 5 °C .

High Temperature Working

At temperatures above 30 °C the setting characteristics will be very fast. To control setting under high temperature conditions the material must be cooled and kept away from heat sources. The use of cold or ice mixing water may be used if ambient temperatures are excessive.

Placing

Rapid Stop is best applied by gloved hand as a mouldable paste when plugging leaks or weeping areas that are just active. Rapid Stop will not seal large leaks under pressure. Large pressure flows must be diverted from the area to be repaired by careful and progressive build up of Rapid Stop until the final plug can be rammed into, and held under pressure, in the breach.

Rapid Stop may also be applied as a trowellable material into damp areas or fissures requiring sealing prior to the release of water into the structure.

Rapid Stop is not intended to be applied as a skim or thin coating. The material should be used as a substantial plug that is pushed or worked into voids that can provide bond and anchoring for the rapid setting material.

Curing

Curing of finished Rapid Stop repairs is only required when the surface of the repair will be exposed to immediate drying. Under these conditions Sure Level Sure Cure should be applied to the surface to prevent moisture loss that will affect the full potential performance of Rapid Stop.





Storage

Rapid Stop has a shelf life of approximately 8 months if kept in a dry environment completely away from moisture.

Clean Up

Rapid Stop should be removed from tools and equipment with clean water immediately after use.

Health and Safety

This product is classified as hazardous according to criteria of Work Safe Australia. Material containing Portland Cement and sand now fall into this category. Continuous or extended contact with this product may cause irritation as well as respiratory issues such as bronchitis or silicosis.

- During use avoid inhalation of dust, contact with skin and eyes.
- Suitable protective clothing, dust masks, gloves and eye protection should be worn.
- Continual or extended contact with cement products can cause skin irritation.
- If skin irritation occurs, remove contaminated clothing and flush skin thoroughly with water for a minimum of 15 minutes. Contact Poisons Information Centre or consult medical adviser.
- Material Safety Data Sheets (MSDS) are available on request from the office. Read the MSDS and product data sheet carefully before using any product.

Disclaimer

Please Note: Recommendation and advice regarding the use of this product is to be taken as a guide only and Sure Level Pty. Ltd. shall not be liable for any inaccuracy in the information or for any loss, injury or damage whatsoever resulting from its use. To the full extent permitted by law, Sure Level Pty. Ltd. liability is limited at its discretion, to the replacement of the goods or the supply of equivalent goods.

Fire

Rapid Stop is non flammable.

Part Number

SLF3010

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