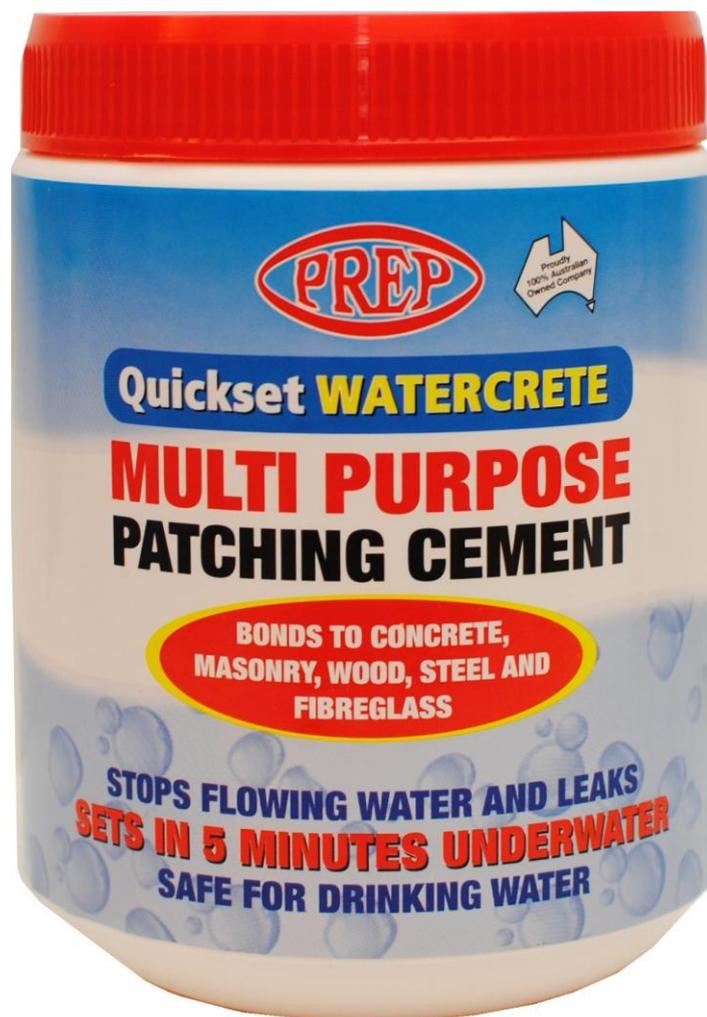


Quickset WATERCRETE

SETS IN 5 MINUTES UNDERWATER

INTRODUCING
THIS UNIQUE PRODUCT



Quickset WATERCRETE

Is a unique product that provides a simple, fast, concrete solution to a multitude of awkward repair problems large and small...from re-forming grating ledges to repairing the Owen Falls Dam in Uganda.

RAINBOW POOL PRODUCTS

P O BOX 2388, MANSFIELD QLD 4122 PH: 07 3849 5385 FAX: 07 3849 5384
EMAIL: info@rainbowpoolproducts WEB: www.rainbowpoolproducts.com.au

Quickset WATERCRETE

SETS IN 5 MINUTES UNDERWATER

GENERAL INFORMATION

Quickset WATERCRETE is a multi purpose patching cement that sets in five minutes ...even underwater!

Bonds to concrete, masonry, wood, steel and glass fibre.

Quickset WATERCRETE is an all purpose patching and bonding compound which is very effective where the presence of water makes repairing and sealing difficult. It will repair leaks in pools, tanks and bonds earth ware pipes and tiles, without the need to drain the water. It is ideal for repairs in wet or dry situations where delays are inconvenient as it can be walked on, or driven over in 30 minutes.

Quickset WATERCRETE is a fast setting, high compressive strength compound that shows its initial set in 4-6 minutes, even underwater. It reaches maximum compressive strength in 24 hours and bonds to **CLEAN CONCRETE, MASONRY, STONE, TIMBER and STEEL**. Contains no calcium chloride. It is suitable for use with drinking water.

BRIEF TECHNICAL SPECIFICATIONS

- Initial set 5 minutes. Curing set 15-30 minutes.
- Compressive strength of 2,000psi or greater in 24 hours
- Maximum strength in 28 days
- Non toxic
- Volume change: Expansion after 24 hours 0.1%
- Contraction after 28 days 0.01%
- Water absorption 1.7% after 14 days
- Factory Production to BS 5750 Part II

Quickset WATERCRETE SETS IN 5 MINUTES UNDERWATER

- Water Research Council Approved to BS 6920

BONDS TO:

- **CEMENT**
- **TIMBER**
- **MASONRY**
- **FIBREGLASS**
- **STEEL**

Quickset WATERCRETE SETS IN 5 MINUTES UNDERWATER



ALDERNEY BREAKWATER CHANNEL ISLANDS

Built in 1847-1864, the breakwater is over 900 meters long. The facility has requires continual maintenance and **Quickset WATERCRETE** has been used exclusively over the last ten years as the most effective solution to an ongoing repair program.

Quickset WATERCRETE SETS IN 5 MINUTES UNDERWATER



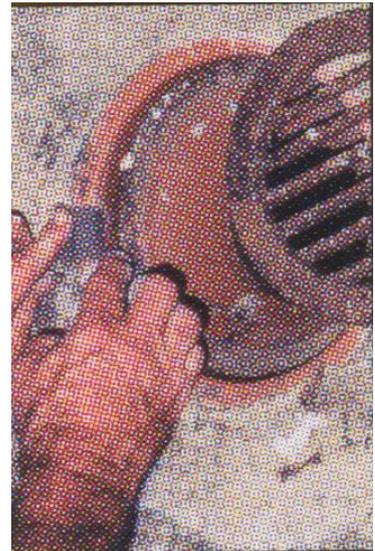
SEALS IT!

No need to drain your precious water.
Quickset WATERCRETE seals running water or set underwater in 5 minutes

MOULD IT!

Repair crumbling or broken grate ledges by moulding with gloved hands. Tough as the original!

The presence of water, even flowing water, is no problem to **Quickset WATERCRETE**.



FILL IT!

Fill awkward holes and gaps.
Restore crumbling areas of concrete or brickwork fast.

Quickset WATERCRETE SETS IN 5 MINUTES UNDERWATER



HOLD IT!

Fix stanchions, timber posts etc into positions and within minutes they will be free standing!

PATCH IT!

Patch your drive or path and in 30 minutes you can walk or drive over it.
Very convenient!

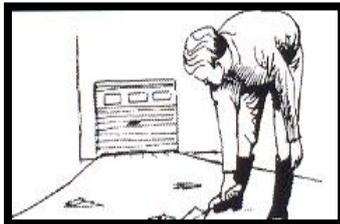


Quickset WATERCRETE

SETS IN 5 MINUTES UNDERWATER

INSTRUCTIONS FOR USE

Remove all loose material from the area to be treated to ensure a solid bond. Slowly add one part of water to 4 parts **Quickset WATERCRETE** and mix for 1 to 2 minutes to the **CONSISTENCY OF PUTTY**. Add more product if mix is too wet as wet mix seriously reduces effectiveness. Avoid contact with skin. Press the mix firmly into the prepared area. The product can be moulded to shape. When filling a hole against running water, hold the mixed product in position with a trowel or piece of timber until it cures. The product hardens rapidly after 4 minutes. If sealing a leak underwater, increase the size of the hole on the surface to create a taper. Before applying **Quickset WATERCRETE** to dry work, generously soak the location with water. Damp conditions assist curing. For repairs less than 1.5cms thick in a dry situation, it is best kept damp for 24 hours.



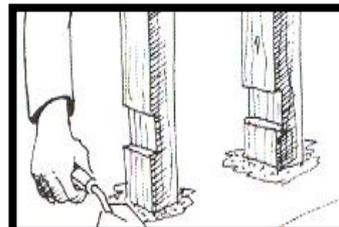
Patch your drive or path and in 30 minutes you can walk and drive over it. Very convenient



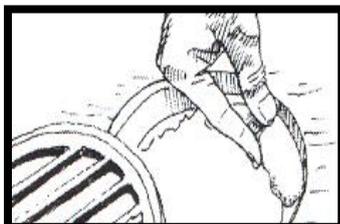
Fill awkward holes, restore crumbling areas of concrete or brickwork fast and get support and strength in minutes for screws and bolts.



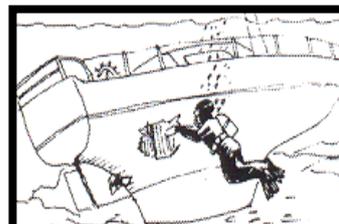
No need to drain your precious water tank or pool to seal a leaking hole. The job's done in 5 minutes regardless of water flow



Fix stanchions, wood posts etc. into position and within minutes they will be free standing, and load bearing in a few hours.



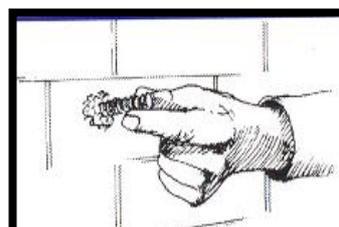
Restore crumbling and dangerous grating ledges by moulding with your fingers. It's just as tough as the original.



Repair submerged boat hulls, steel wood or glass fibre in emergencies or for re-floating.



Refix pool tiles underwater in minutes. No expensive and lengthy draining necessary.



Grout bolts fast into rock, brick, stone or concrete.

Quickset WATERCRETE

SETS IN 5 MINUTES UNDERWATER

IN ACTION

Quickset WATERCRETE is manufactured in the UK and packed in Australia in handy 750g and 4.5kg plastic screw top jars. It is also available in 25kg buckets.

This product has been in wide use for many years in the UK by Industry, Government Departments, Water Authorities, the Armed Forces and the Marine and Shipping Industry. It has been in Australia for over 10 years and brief examples of its multiple uses are as follows:

- Quickset WATERCRETE** repaired a leak behind the guides of an emergency gate of a dam situated at the bottom of a 40m deep tunnel with water pouring through the holes at extreme pressure.
- Quickset WATERCRETE** was used by divers to repair 60 holes ranging from 1cm wide to 50cm wide underwater in concrete piling.
- Quickset WATERCRETE** repaired the sill of a very old lock after several unsuccessful attempts using ordinary concrete.
- Quickset WATERCRETE** was used to resurface a penstock brick wall after serious fire damage. Fire repairs were effected within 1 hour of high tide.
- Quickset WATERCRETE** sealed a leaking oil tanker slop tank which was denying the vessel Port entry, and enabled the vessel to dock after only a short delay.
- Quickset WATERCRETE** was used to patch holes in a sunken barge. The largest hole, 58cm x 70cm, was covered with expanded metal and then covered with **Quickset WATERCRETE**. A ripped seam 9m long was also sealed. When floated, the barge was towed 240km without pumping.
- Quickset WATERCRETE** is used to repair damage to ships at sea from inside or the wet side while water is flowing through the hole.

Quickset WATERCRETE SETS IN 5 MINUTES UNDERWATER

In Australia Quickset WATERCRETE is used by Councils, Water Boards, Farmers, Divers, Pool Servicing Companies and Householders etc.

- A NSW Farmer used **Quickset WATERCRETE** to repair the floors and troughs of his milking shed between morning and afternoon milking. The wet conditions were no hindrance to the operation, and the rapid setting meant that the repairs were completed quickly and able to accept the traffic of the next milking. So, the shed was repaired without and disruption to the farm routine.
- A ranger 45' fibreglass yacht was holed by rocks and sand in Maryland's waters off the WA coast. A Diving Company patched the hole with **Quickset WATERCRETE**. The yacht was refloated and towed for two and a half hours back to port. When the boatyard came to repair the hull it took them over three hours to chip away the patch, demonstrating the tremendous bonding strength in **Quickset WATERCRETE**.
- During a 36 hour period of continuous torrential rainfall, a Sydney resident discovered water entering the basement containing several thousand dollars worth of new cane furniture and an irreplaceable book collection. The leaking joint between wall and floor was widened and filled with **Quickset WATERCRETE** which stopped the flow. The water, now under considerable pressure, forced its way in a fountain through a small hole in the floor. The hole was enlarged (producing a larger fountain) and immediately filled with **Quickset WATERCRETE** and held in place with a trowel for seven minutes to be certain the seal was complete. A disaster avoided.
- The concrete ledges supporting iron gratings covering drains in a concrete patio floor had partly collapsed, allowing the gratings to tip sideways dangerously. New ledges were moulded by hand easily and quickly with **Quickset WATERCRETE**. An awkward little repair job made utterly simple.
- The manager of a public swimming pool in Victoria uses **Quickset WATERCRETE** to refix tiles instantly anywhere in the pool. Above or below water – even in the deepest part. A fantastic saving in time, avoiding emptying and refilling and closure for two days.

Quickset WATERCRETE SETS IN 5 MINUTES UNDERWATER

- Many Australian farmers have stopped precious water leaking from concrete and galvanised water tanks and troughs with **Quickset WATERCRETE**.

It's so easy to use, it's so quick to use and most important ... it does the job!

- A Diving Company in Victoria was using a two part epoxy product for underwater pool repair work which was difficult to work with, particularly in cold conditions. The availability for **Quickset WATERCRETE** was the answer to their prayers. As it only needs the addition of fresh or salt water, it is easy to use and handle in any temperature.
- The owner of a NSW earthwork dam was frustrated by his inability to stop the dam leaking in one particular place. The fault was below the water level, and a lot of precious water was escaping. **Quickset WATERCRETE** stopped the leak permanently after just a few minutes work.

Quickset WATERCRETE

SETS IN 5 MINUTES UNDERWATER

REFERENCES

Quickset WATERCRETE (known as QuickCRETE in the UK)

The following references may be taken up by Companies, Corporations and Government Bodies where applicable but must never be used in any form of advertising.

- Mr J Gandy, Chief Diving Officer
The Royal Navy
Room 47, Block E
Foxhill
Bath, Somerset, England
Tel: (0225) 883709
Used for rising of sunken ships and emergency repairs to hills over the last 8 years.
- Miss M J Wenmouth
Royal Harbour
Harbour Offices
Ramsgate, Kent England
Tel: (0843) 592277
Repairs to harbour walls and shipways.
Several tons used.
- Mr B N Wright
Bridge Works Engineer
Devon County Council
Engineering & Planning Dept
Rydon Road
Kingsteignton, Devon England
Tel: (0626) 52296
Repairs to bridges, culverts etc. Has used Quick CRETE (Quickset WATERCRETE) for around 20 years.
- Mr G Lloyd
South West Water Services Ltd
Crown Hill Waterworks
Derriford
Plymouth Devon England
Tel: (0752) 776181
Has used QuickCRETE for 18 years.
- Mr C Moore, Buying Section
Mowlem International
Foundation House
Eastern Road
Bracknell, Berkshire
Tel: (90344) 426826
Quick CRETE is used for repairs to Owen Falls Dam in Uganda.
- Mr S Cymbalski, Diver
Trafalgar House, Construction PLC
Normandy Manor
Middleborough
Tel: (90642) 440555
Has used Quick CRETE in his diving work for around 10 years.
- Mr P Haig
Area Civil Engineers Office
British Rail
Central Station
Queen Street
Exeter, Devon England
In 1986, the Exeter to Plymouth railway line was washed away with a section of the sea wall. Quick CRETE saved the day when all else failed. British Rail has since used Quick CRETE regularly for sea wall repairs and pointing in tunnels.

Quickset WATERCRETE

SETS IN 5 MINUTES UNDERWATER

EXAMPLES OF USE

Quickset WATERCRETE has been in wide use in the UK for 25 years. Here are some examples of its use....

UNDERWATER

- Cracks and leaks in concrete swimming pools and water tanks.
- Repair of a leak behind the guides of an emergency gate of a dam situated at the bottom of a 40m deep tunnel with water pouring through a hole at extreme pressure of about 60psi.
- Cofferdams, pipelines, ships hulls, jetties and piles have been repaired with **Quickset WATERCRETE**.
- Sixty holes in concrete piling were repaired by divers using **Quickset WATERCRETE**. Holes from 1 to 50cm wide were treated.
- The sill of a very old lock was repaired with **Quickset WATERCRETE** after several unsuccessful attempts using ordinary concrete.
- **Quickset WATERCRETE** is regularly used for grouting bolts underwater.
- A penstock brick wall was resurfaced with **Quickset WATERCRETE** after being seriously damaged by fire. First repairs were effected within one hour of high tide. Approximately 25 million gallons of effluent pass through the repair area every week.
- Repairs to damage by Teredo worm in joints and uprights on wooden piers and piles.
- Waterproofing of gas governor pits close to the sea which were subject to constant seepage.

Quickset WATERCRETE

SETS IN 5 MINUTES UNDERWATER

NAVAL DAMAGE CONTROL

- An oil tanker slop tank was leaking and the vessel was denied port entry. **Quickset WATERCRETE** stopped the leak and the vessel docked after only a short delay.
- A sunken barge was refloated after being patched with **Quickset WATERCRETE**. The largest hole 58cm by 70cm was covered with expanded metal and the **Quickset WATERCRETE** applied. A ripped seam 9 m long was also patched and when floated the barge was towed 240k without pumping.
- Damage to ships hulls at sea are repaired immediately with from inside or the wet side while water is flowing through.

LOCAL AUTHORITIES

- Repairs to paving stones, kerbs, concrete lamp posts, floors etc.
- Repairs to spalled and cracked concrete posts and bus shelters
- Repairs to sewage disposal plants and outlet pipes
- Fixing manhole frames in roads
- Repairing leaking fish ponds
- Repairs to the underside of road bridges where reinforcing rods were showing through and rusted.
- Leaking culvert joints and grouting of steel stepping irons in manhole entries.
- Holes in concrete paths and drives can be repaired without the closure of business.
- Pointing in railway tunnels.

Quickset WATERCRETE

SETS IN 5 MINUTES UNDERWATER

TECHNICAL SPECIFICATION

Quickset WATERCRETE is an underwater all purpose bonding and patching compound.

INTRODUCTION

Quickset WATERCRETE is a fast setting, high compressive strength compound that shows no appreciable volume change on setting. It can be applied or used in or out of water. It shows its initial set in 4/5minutes and reaches a compressive strength of 2,000psi or greater in 24hours. Quickset WATERCRETE bonds to clean concrete, masonry, stone, wood, glass fibre and steel. Quickset WATERCRETE is free of calcium chloride, is suitable for use with potable water and under its UK name QuickCRETE is listed by the UK Water fittings Scheme Ref. No. 87060533 Darpor Engineering & Associates – Section 55063.

It also meets the UK Ministry of Transport Highways and Traffic Departmental Standard BD 2786 for repairs to bridges. It is manufactured under Min of Defence quality assurance no. 0524.

APPLICATIONS

Quickset WATERCRETE is the answer where the presence of water, stagnant or flowing makes repairing and sealing difficult.

Quickset WATERCRETE will repair and seal concrete swimming pools, water tanks, fishponds and water channels from inside or outside without the need to drain the water. It will seal holes with water pouring through and can be used to grout and repair in any situation wet or dry. Quickset WATERCRETE is also ideal for repairs where holding up traffic is inconvenient, because it will take light traffic after only 30 minutes.

Quickset WATERCRETE

SETS IN 5 MINUTES UNDERWATER

TECHNICAL SPECIFICATIONS

METHOD OF USE

Quickset WATERCRETE is mixed with fresh or sea water in the ratio of 4/4.5 parts of **Quickset WATERCRETE** to 1 part of water. Mix thoroughly for 1-2 minutes to reach the consistency of putty/plasticine so that the mix can be rolled into a ball. If it will not roll up you have over watered and it will not be effective. **BEWARE TOO MUCH WATER.** Mix only quantities that can be used immediately because **Quickset WATERCRETE** hardens in 4 to 8 minutes. **Quickset WATERCRETE** should then be placed firmly in position to ensure a complete bond to the area being treated. If under pressure from leaking water, hold in position for a few minutes until it sets. Water will not disperse correctly mixed **Quickset WATERCRETE** but it can be pushed out before its initial set. For deposits of **Quickset WATERCRETE** less than 1.5cm thick, cure for 16 hours with damp sand or Hessian. Thin section on pipe work etc can be coast with damp hessian until initial cure is effected. Before applying **Quickset WATERCRETE** to a dry area, soak with water first. See detailed instructions on label.

CURING

Quickset WATERCRETE reaches it initial set in 4.5 to 5 minutes and be trafficked after 30 minutes but takes 28 days to achieve maximum strength. It is important that the water in **Quickset WATERCRETE** is not sucked away through contact with dry concrete or allowed to prematurely evaporate through the effect of sun or wind. A damp covering of cloth / sand etc is effective in the later case.

Quickset WATERCRETE

SETS IN 5 MINUTES UNDERWATER

PRODUCT DATA

APPEARANCE:	Greyish white, free flowing powder		
MIXING RATIO:	4/4.5 parts of Quickset WATERCRET to 1 part of water by volume		
TOTAL SOLIDS:	100%		
DENSITY:	Dry 0.9 Wet 2.7		
DRYING TIMES:	Initial set 5 minutes maximum. Curing set 15/30 minutes. Over coating time 24 hours maximum. Maximum strength 28 days.		
TOXICITY:	Non Toxic		
COMPRESSIVE STRENGTH:		Air Cured	Water Cured
	1 hour	8.3	6.5
	8 hours	19.2	14.4
	14 days	23.17	17.2
	Mega Newtons per sq. meter		
STORAGE:	For maximum life up to 2 years, keep lid tight.		
WATER ABSORPTION:	1.7% after 14 days.		
VOLUME CHANGE:	Expansion after 24 hours 0.1%. Contraction after 28 days 0.01%.		

MANUFACTURERS:

Made in England for Darpor Engineering and Associates suppliers to HM Government and UK Local Authorities.

INTERNATIONAL AGENTS

Sole Australian Agents and Packers and Far East Agent:

PREMIUM HARDWARE PTY LTD

PO Box 4363, Milperra DC NSW 1891

ABN 55 066 030 386 Phone: (02) 9792 8444 Fax: (02) 9792 4299

Quickset WATERCRETE

SETS IN 5 MINUTES UNDERWATER

MATERIAL SAFETY DATA

Quickset WATERCRETE is a CEMENT based product with no toxic or poisonous additives and for safety, should be treated the same as blended cement.

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

SWALLOWED:	Mild corrosive action
EYES:	Short term exposure, irritating. Long term exposure, irritating may cause inflammation of the cornea.
SKIN:	Short term exposure, irritating. Long term exposure, wet product is mildly caustic and can dry the skin.
INHALED:	Short term exposure, irritating. Long term exposure may cause inflammation of the lining of the respiratory system.

FIRST AID:

SWALLOWED:	Wash mouth and lips with water. Do not induce vomiting; give water containing sugar or milk to drink. Seek medical attention.
SKIN:	Wash with lukewarm soapy water. A shower may be required.
EYES:	Irrigate with copious amounts of water for at least ten (10) minutes. Seek medical attention.
INHALED:	Move to fresh air, wash with water and seek medical attention if effects persist.

ADVICE TO DOCTOR:

Contact Poisons information Centre.

PRECAUTIONS FOR USE:

EXPOSURE LIMITS:	Quickset WATERCRETE is classified as an inert nuisance dust.
VENTILATION:	Where practical, suitable means of dust collection or suppression should be applied as necessary, to maintain acceptable airborne dust levels.