

## Fast setting, cement based mortar to plug running water leaks

### Uses

Rapid setting, plugging of water seepage through porous concrete and fast flowing water through cracks and construction joints in concrete and masonry.

Applications include plugging in-situ and precast concrete segments in tunnels, water storage tanks, sewerage mains and processing tanks, basements, below ground car parks, access chambers, building foundations and mines.

Vandex plug is effective in sealing water leaks through concrete, concrete block walls, brickwork, earthenware and all types of stone and masonry.

### Advantages

- Highly abrasion resistant
- Stops water flow
- Sets in approximately 30 seconds after mixing
- Works on concrete, brick, stone and all types of masonry
- Can be installed underwater
- Can be mixed with water or used as a dry powder
- Suitable for use in potable water
- Packed in convenient resealable plastic containers

### Description

Vandex Plug is a one-component, very rapid setting, ready-mixed, cementitious, waterproof plugging mortar which is ready for on-site application to leaking cracks and water seepage areas in concrete, stone and all types of masonry after mixing with water.

### Test Reports and Approvals

#### Australian Standard AS4020:2005

- Contact with potable water

### Design Criteria

Vandex Plug can be applied in vertical, horizontal and overhead applications. Areas of leakage must be identified and a rebate with width and depth of 25 to 50 mm, formed along the defect to accept the Vandex Plug.

Applications where a very high water pressure exists behind the leak can be repaired more effectively by drilling a hole through the substrate and inserting a plastic tube to allow the water to flow and release the pressure. Plugging can then be performed on the surrounding leakage points before removing the plastic tube and plugging the hole.

### Properties

Form:	Cementitious powder
Colour:	Cement grey
Bulk density:	1.10 - 1.30 kg / L
Initial setting time:	30 seconds (after mixing)
Application temperature:	5 - 30°C

### Chemical Resistance

Vandex Plug is suitable for use in contact with sewerage water, sea water, aggressive ground water and a range of chemical solutions.

### Application Instructions

#### Surface Preparation

When applying Vandex Plug to existing concrete or masonry, all surfaces to be waterproofed should be clean, sound and free of concrete curing compounds, form release agents, paints and all other coatings, dirt and contamination.

Where surface contamination exists, concrete surfaces should be prepared by water blasting, grit blasting or wire brushing in the area of the leak in order to remove the laitance in preparation to receive the Vandex Plug.

#### Application

Vandex Plug is supplied in the form of a dry powder and can be dry packed as a powder or applied by hand as a putty consistency after mixing with water by spatula.

To mix, place 500g of Vandex Plug into a small clean plastic container, add approximately 125g of clean tap water and mix by hand with a spatula.

Mix the powder and the water quickly for about 15 seconds. Scoop the mixed mortar out of the plastic mixing container by hand and knead the mix for 5 - 15 seconds as the temperature of the mix increases. The mortar should become quite warm and begin to stiffen indicating that it is ready for application. The rapid setting time does not allow for any delay in application, ensure that all substrate preparation has been completed ready for immediate application of the plugging mortar.

With gloved hands, roll the wet mortar between the hands like putty to shape it into an appropriate sized plug to fill the prepared rebate. Install the plugging mortar immediately ensuring that the correct temperature and consistency has been achieved and maintain firm hand pressure on the installed mortar for about 30 seconds until it has set.

In large repairs, work from the lowest end of the repair towards the highest end, applying each new plugging mix next to the previous.

Allow the mortar to set for 1 minute and using a trowel or spatula in a cutting action, cut away any excess mortar from the surface of the repair.

# Vandex® Plug

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After completing the repair, the effectiveness of the plug can be tested by sprinkling dry Vandex Plug powder over the surface of the repair. If the powder remains dry after 30 seconds, the repair has been successful. It is recommended that areas treated with Vandex Plug be overcoated with Vandex BB75-EZ or Cemelast.

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Note: the water temperature used for mixing the Plug has a large effect on the setting time. Use cold water in summer and avoid using water from a hose that has been lying in the sun. In very cold winter conditions warm water may be used to accelerate the cure.

## Supply

<b>Vandex Plug</b>	5 kg plastic pail
Material Code:	FC000557-5KG
<b>Vandex Plug</b>	15 kg plastic pail
Material Code:	FC051006-15KG

## Coverage

Varies by type of size of repair

## Storage

Vandex Plug has a shelf life of 12 months in original container stored in cool, dry conditions ie; not exceeding 30°C. Storage above this temperature may reduce storage life.

### Important notice

A Safety Data Sheet (SDS) is available from the Fosroc website. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

### Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

