



constructive solutions

# WATER- PROOFING SOLUTIONS

**LIQUID APPLIED**

**NITOPROOF™ · POLYUREA · NITOBAND · NITOPRIME™**



## Sydney Opera House, NSW

Parchem Construction Supplies and Fosroc ANZ have been providing concrete repair and remediation products, sealants and waterproofing products to the Sydney Opera House since it was built and continues to provide products to this day

### Products used:

Fosroc Renderoc LA55 Plus, Fosroc Renderoc HB40, Fosroc Nitoproof waterproofing range and Vector Galvashield anodes.



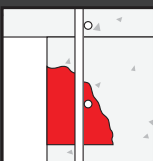
## About Fosroc and Parchem

Fosroc is a world leader in construction solutions. Since the company's beginnings over 80 years ago, Fosroc has developed into an international leader in delivering construction solutions for virtually any building or infrastructure project. New or old construction above or below ground, we combine high quality products, expert technical support, customer service and innovation to give you the best solution for your project.

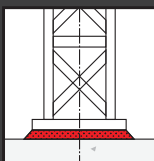
We provide construction solutions for; new and old concrete repair, grouts, waterproofing, joint fillers & sealants, industrial flooring, protective coatings, surface treatments, concrete admixtures and concrete grinding aids.

Fosroc has an extensive network of offices and manufacturing locations across Europe, the Middle East, India and Asia, and is further represented in other regions across the world by distributor and licensee partners.

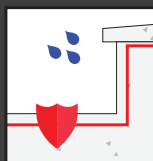
Parchem Construction Supplies, part of DuluxGroup, is the licensed manufacturer and distributor of Fosroc, Vector®, Vandex®, and EdenCrete® products in Australia, and Concrete Plus™ is the licensed distributor in New Zealand.



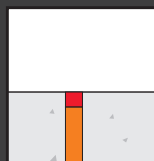
Concrete Repair



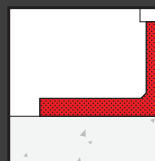
Grouts



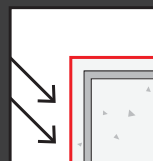
Waterproofing



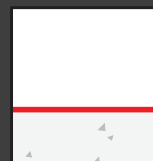
Joint Fillers & Sealants



Industrial Flooring



Protective Coatings



Surface Treatments



Concrete Additives

# Fosroc Waterproofing Solutions

Fosroc offers a comprehensive range of world class waterproofing solutions and systems from below ground to high above it, including sheet, liquid and torch applied membranes.

Whether your structure will be affected by rainwater, groundwater or contaminants within the soil, Fosroc's product portfolio and expert technical advice combine to provide cost effective project solutions.

## Our Range

### Liquid Applied Waterproofing

Nitoproof 210

Nitoproof 310

Nitoproof 410

Nitoproof 510

Nitoproof 610

Nitoproof 750

Nitoproof 810

Nitoproof Top Coat UV

Nitoproof Top Coat EW

Polyurea WHE110

Polyurea WPE110

### Waterproofing Accessories

Nitoband

### Primers

Nitoprime 115

Nitoprime 120

Nitoprime 320PU

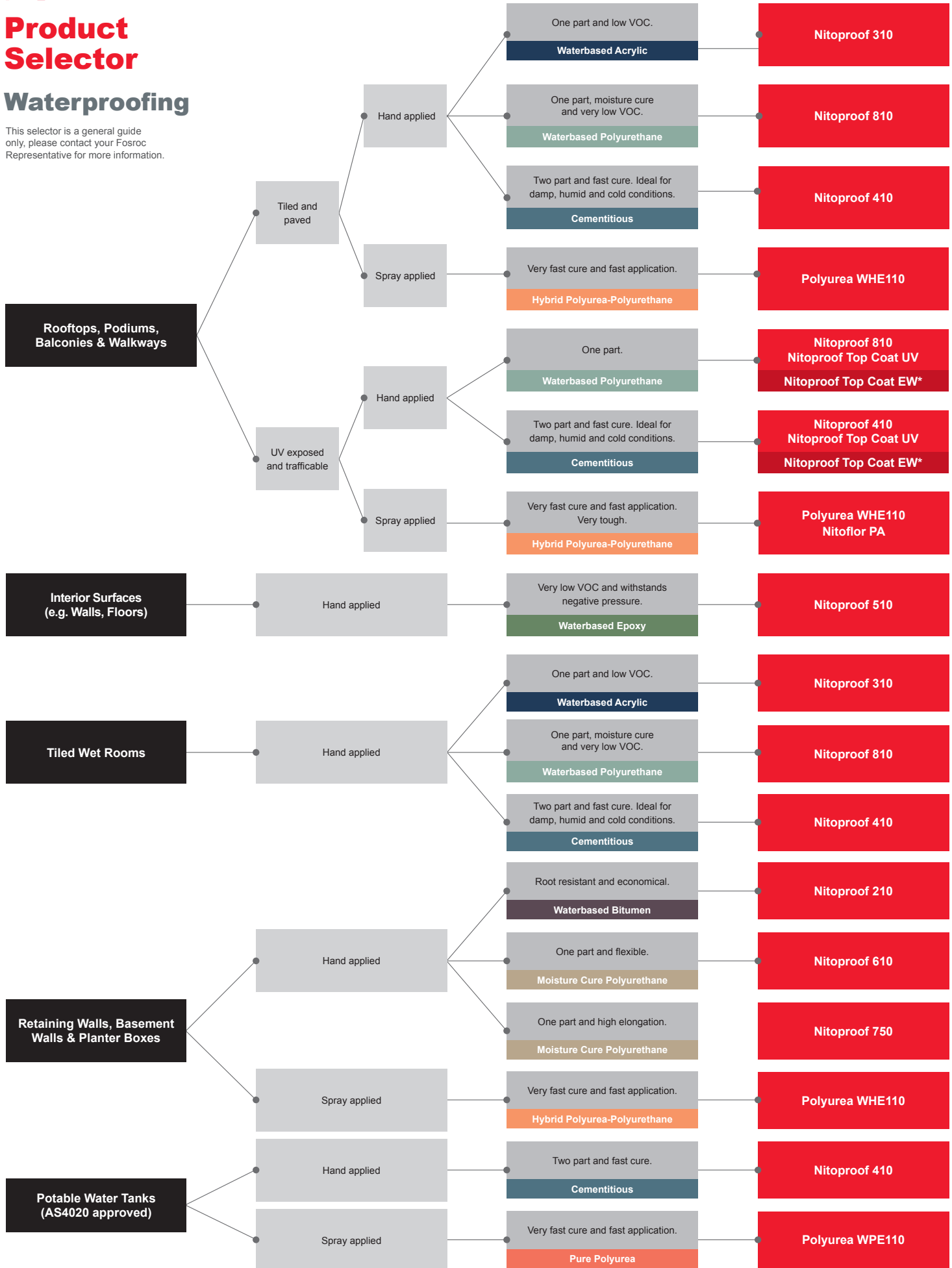
Primer 4



# Product Selector

## Waterproofing

This selector is a general guide only, please contact your Fosroc Representative for more information.



Please always refer to the product TDS before making your final selection or speak to your Fosroc representative.

\*Nitoproof Top Coat EW is an optional product used to improve stain and slip resistance and scuff marks associated with pedestrian traffic.

# Product Selector

## Waterproofing

This selector is a general guide only, please contact your Fosroc Representative for more information.

Typical Application	Nitoproof 210	Nitoproof 310	Nitoproof 410	Nitoproof 510	Nitoproof 610	Nitoproof 750	Nitoproof 810	Nitoproof Top Coat UV	Nitoproof Top Coat EW	Polyurea WHE110	Polyurea WPE110
Balconies - exposed (trafficable)			■				■	■	■	■	■
Balconies - tiled		■	■		■	■	■			■	■
Basement walls	■		■	■	■	■	■			■	■
Below ground	■		■		■	■	■			■	■
Deck areas - exposed (trafficable)			■				■	■	■	■	■
Deck areas - paved		■	■		■	■	■			■	
Foundations	■		■		■	■	■			■	■
Green roofs			■				■			■	■
Landscaping	■		■							■	■
Liftwells - outside faces			■			■	■			■	■
Liftwells - inside faces				■							
Planter boxes	■				■	■				■	■
Pools			■							■	■
Podium decks - exposed (trafficable)			■				■	■	■	■	■
Podium decks - paved		■	■		■	■	■			■	■
Potable water tanks			■								■
Retaining walls	■		■		■	■	■			■	■
Rooftops - exposed (trafficable)			■				■	■	■	■	■
Rooftops - paved		■	■		■	■	■			■	■
Rooftop gardens			■				■			■	■
Sandwich seal between existing & new substrates		■	■				■				
Showers		■	■			■	■			■	
Tanks			■		■	■				■	■
Terrace - exposed (trafficable)			■				■	■	■	■	■
Terraces - paved		■	■		■	■	■			■	■
Tiled and paved areas		■	■		■	■	■			■	■
Top coat								■	■		
Tunnels	■		■	■	■	■	■			■	■
Underground car park	■		■	■	■	■	■			■	■
Water features			■								■
Water storage - pools, water features			■								■
Wet areas		■	■			■	■			■	

Please always refer to the product TDS before making your final selection or speak to your Fosroc representative.

\*Nitoproof Top Coat EW is an optional product used to improve stain and slip resistance and scuff marks associated with pedestrian traffic.

# Liquid Applied Waterproofing Product Guide

	Nitoproof 210	Nitoproof 310	Nitoproof 410		Nitoproof 510	Nitoproof 610	Nitoproof 750	Nitoproof 810
<b>Previously known as / replaces</b>	Emer-Proof Aqua Barrier Landscape	Emer-Proof Aqua Barrier Undertile	Emer-Proof Aqua Barrier Quick Dry		Emer-Proof Aqua Barrier Vapour Control		Emer-Proof 750	Emer-Proof Aqua Barrier Advanced
<b>Description</b>	A high performance single component water based bituminous rubberised liquid applied waterproofing membrane, which contains root inhibiting additives.	A fibre enhanced single component water based latex liquid applied membrane, designed for waterproofing applications where the membrane is to be covered over with tiles, screeds or concrete beds.	A water based, fast drying, flexible two component, polymer modified, cementitious waterproofing membrane designed for under toppings, tiles and other protected environments. It may also be used for foot trafficable exposed roof top membranes and foot trafficable exposed balcony decks when over coated with Nitoproof Top Coat UV.		A grey, two-component, epoxy coating will provide a moisture barrier coating to restrict passage of dampness through concrete and masonry substrates.	A single component moisture cure polyurethane liquid which cures by reaction with atmospheric moisture to give a flexible waterproofing membrane.	A single component moisture cure polyurethane liquid which cures by reaction with atmospheric moisture to give a tough flexible elastomeric waterproofing membrane.	A single component water based polyurethane membrane designed for a wide range of waterproofing applications in the built environment. Nitoproof 810 is an alternative to solvent based and moisture curing polyurethane membranes.
<b>General Advantages</b>	Contains root penetration inhibitors.	Direct stick tiles to membrane.	Ideal for damp, cold weather or humid conditions.		Resists negative pressure moisture transmission.	Versatile - can be applied to a wide range of substrates.	Resistant to aggressive soil conditions. Can be applied to a wide range of substrates.	Direct stick tiles to membrane. Very low VOC.
<b>Technology</b>	Waterbased Bitumen	Waterbased Acrylic	Cementitious		Waterbased Epoxy	Moisture Cure Polyurethane	Moisture Cure Polyurethane	Waterbased Polyurethane
<b>Internal / External</b>	External	Internal	External / Internal		External / Internal	External	External	External / Internal
<b>Application Type</b>	Vertical / Horizontal	Vertical / Horizontal	Vertical / Horizontal		Vertical / Horizontal	Horizontal	Vertical / Horizontal	Vertical / Horizontal
<b>Number of Components</b>	One	One	Two		Two	One	One	One
<b>Typical Applications</b>	Retaining walls, planter boxes, building foundation walls & below ground tanking structures.	Balconies and wet areas which are being tiled over.	Waterproofing podiums, terraces, balconies and deck areas which will be protected		Interior faces of walls, floors, basements, tunnels, cellars, retaining walls, lift wells and underground car parks.	Foundations, basements, tunnels, ground floors, suspended floors, roof terraces, balconies, patios, bridges.	Foundations, basements, roofs and tunnels.	Wet areas, enabling the direct fix of ceramic tiles, screeds, and renders over the dried membrane using Nitotile Flex polymer modified cement based tile adhesive.
<b>Pack Size</b>	15 litres	15 litres	25kg 2 component pack		20 litre 2 component pack	15 Litres	15 litres	15 litres
<b>Typical Coverage Per Unit</b>	10m <sup>2</sup> / 15L pail @ 1.5mm WFT	10m <sup>2</sup> / 15L pail @ 1.5mm WFT	12.8m <sup>2</sup> / 25kg pack @ 1.5mm WFT 9.6m <sup>2</sup> / 25kg pack @ 2mm WFT		28.6m <sup>2</sup> / 20L pack @ 0.7mm WFT	10m <sup>2</sup> / 15L pail @ 1.5mm WFT	10m <sup>2</sup> / 15L pail @ 1.5mm WFT	10m <sup>2</sup> / 15L pail @ 1.5mm WFT
<b>Number of Coats</b>	2	2	2		2	2	2	2
<b>Cure Time (@23°C 50% RH) Unless Otherwise Stated</b>	24 hours	24 hours	5-7 hours		Touch dry 2 hours Hard cure 24 hours, 20°C Complete cure 7 days, 20°C	Tack free 3 hours, 20°C Full cure 12 hours, 20°C	Tack free 16 hours, 20°C Full cure 36 hours, 20°C	Touch dry 12 hours Hard cure 24 hours
<b>Recoat Time</b>	4 hours @ 23°C, 50% RH	2-4 hours @ 23°C	2 to 4 hours @ 23°C		2 hours	6-12 hours	16 hours	4 hours @ 23°C, 50% RH 6 hours @ 10°C, 50% RH
<b>Elongation</b>	320%	>300%	320%		N/A	High elongation (>500%)	High elongation (>600%)	>355%
<b>Complies with/meets requirements of standards*</b>		AS/NZS 4858	AS 4858 AS 4654.1 AS 4586 with Nitoproof Topcoat UV or Nitoproof Topcoat UV + Topcoat EW		N/A	AS 4654.1 AS 4858	AS 4654.1	AS 4654.1 AS 4858 AS 4586 with Nitoproof Topcoat UV or Nitoproof Topcoat UV + Topcoat EW
<b>Made In Australia</b>	Yes	Yes	Yes		Yes	No	Yes	Yes
<b>VOC Content*; g / litre</b>	Very low <15 g/l	Very low 17 g/l	Low		Very low <5 g/l	190 g/l	123 g/l	Very low 2 g/l
<b>Colour</b>	Black	Light grey	Grey		Grey	Grey	Grey	Light Green
<b>Product Code</b>	FC000605-15L	FC000602-15L	FC000603-12.5L - Part A FC000604-12.5KG - Part B		FC000625-10L - Part A FC000626-10L - Part B	FC000627-15L	FC000609-15L	FC000608-15L
<b>Primer</b>	Nitoproof 210 diluted 1:1 with water - for porous surfaces Nitoprime 115 - for non-porous substrates	Nitoprime 120 - for porous substrates Nitoprime 115 - for non-porous substrates	Nitoprime 120 - for porous substrates Nitoprime 115 - for non-porous substrates		No primer required	Nitoproof 610 + up to 5% Fosroc Solvent 10 - for concrete Primer 4 - for metal surfaces	Nitoproof 510 or Nitoproof 750 + up to 40% Fosroc Solvent 10 Fosroc Primer 4 - for metal surfaces	Nitoprime 120 - for porous substrates Nitoprime 115 - for non-porous substrates

\*Test certificates available at fosroc.com.au and fosroc.co.nz

Please always refer to the product TDS before making your final selection or speak to your Fosroc representative.

\*Test certificates available at fosroc.com.au and fosroc.co.nz

\*\*Test certificate available soon

Please always refer to the product TDS before making your final selection or speak to your Fosroc representative.

# Liquid Applied Waterproofing Product Guide (Cont)

	Nitoproof Top Coat UV	Nitoproof Top Coat EW	Polyurea WHE110	Polyurea WPE110
<b>Previously known as / replaces</b>	Emer-Proof Top Coat UV Protect	Emer-Proof Top Coat Extended Wear		
<b>Description</b>	An acrylic hybrid, hard wearing top coat designed for external applications. Exhibits outstanding adhesion properties and excellent UV weather resistance.	A solvent free hybrid sealer designed for use over Nitoproof Top Coat UV to improve stain resistance and scuff marks associated with pedestrian foot traffic. Exhibits excellent UV resistance and durability.	A spray-applied, 100% solids, flexible, two-component, rapid curing hybrid Polyurea-polyurethane system. Designed as a waterproofing and protective coating, it offers seamless coating with very long life cycles and high durability.	A spray-applied, 100% solids, flexible, two-component, rapid curing pure Polyurea system. Designed as an anti-corrosion, waterproofing and protective coating. Suitable for use in potable water applications, complies with AS 4020.
<b>General Advantages</b>	UV resistant and slip resistance.	UV, slip resistance and wear resistance.	Rapid cure.	Rapid cure.
<b>Technology</b>	Waterbased Acrylic Hybrid	Solvent Free Hybrid	Hybrid Polyurea-Polyurethane	Pure Polyurea
<b>Internal / External</b>	External	External	External	External
<b>Application Type</b>	Vertical / Horizontal	Horizontal	Vertical / Horizontal	Vertical / Horizontal
<b>Number of Components</b>	One	One	Two	Two
<b>Typical Applications</b>	Suitable for use as a trafficable top coat over Nitoproof 410 and the Nitoproof 810 membranes for roofs and deck areas.	Suitable for use as a top coat over Nitoproof Top Coat UV with Nitoproof 410 and Nitoproof 810 membranes for roofs and deck areas.	Below grade waterproofing, tank coating, waste water tank lining, marine environment, roof waterproofing, aquarium lining, landscape & water containment, waterparks and secondary containment.	Below grade waterproofing, waste water tank lining, marine environment, roof waterproofing, landscape & water containment, waterparks and secondary containment.
<b>Pack Size</b>	15 litres	15 litres	42.5kg & 425kg packs	42.5kg & 425kg packs
<b>Typical Coverage Per Unit</b>	19 - 25m <sup>2</sup> / 15L	60m <sup>2</sup> / 15L	Refer to product data sheet	Refer to product data sheet
<b>Number of Coats</b>	1 or 2	2	2 passes	2-3 passes
<b>Cure Time (@23°C 50% RH) Unless Otherwise Stated</b>	Dry film 24 hours Fully weatherproof 48 hours	24 hours Note: To be applied over Nitoproof Top Coat UV after it has cured for a minimum of 48 hours.	2 minutes – walkable 20 minutes – trafficable (light)	2 minutes – walkable 20 minutes – trafficable (light)
<b>Recoat Time</b>	4 hours @ 23°C, 50% RH	2-4 hours	N/A	N/A
<b>Elongation</b>	>150%	150%	>350%	>350%
<b>Complies with/meets requirements of standards*</b>	AS 4586 with Nitoproof 410 or Nitoproof 810	AS 4586 with Nitoproof 410 or Nitoproof 810	AS 4858** AS 4654.1	AS 4020:2018
<b>Made In Australia</b>	Yes	Yes	Yes	Yes
<b>VOC Content*; g / litre</b>	Low 26 g/l	Very low	Very low 18.8 g/l	Very low 11.15 g/l
<b>Colour</b>	Light Grey	Opaque	Dark Grey	White
<b>Product Code</b>	FC000606-15L	FC000607-15L (MTO)	<b>42.5KG PACK</b> FC007090-22.5KG - Part A FC007091-20KG - Part B <b>425KG PACK</b> FC007090-225KG - Part A FC007091-200KG - Part B	<b>42.5KG PACK</b> FC007088-22.5KG - Part A FC007089-20KG - Part B <b>425KG PACK</b> FC007088-225KG - Part A FC007089-200KG - Part B
<b>Primer</b>	No primer required over membrane	No primer required over membrane	Nitoprime 320PU or Nitomortar 903	Nitoprime 320PU or Nitomortar 903

Please note that Made To Order (MTO) products need to be ordered by contacting Customer Service or your Fosroc representative. Minimum Order Quantities (MOQ) and Order Quantity Breaks apply.

# Waterproofing Accessories

## Fosroc Nitoband (Previously known as Emer-Proof EJB)



The Nitoband System is an alternative to traditional bond breaking methods for sealing critical joint areas. It is used in conjunction with Nitoproof water based membranes and is suitable for internal, external underground and fully immersed applications. Conforms to AS3740.

**Typical applications:** Bridging cracks and joints when using Nitoproof membranes.

PRODUCT CODE	DESCRIPTION	SIZE	PRODUCT CODE	DESCRIPTION	SIZE
FC000612-UNIT	NITOBAND TAPE 120MM X 10M	120MM X 10M ROLL	FC000616-UNIT	NITOBAND PIPE DETAILING SQUARE SMALL	<50MM
FC000614-UNIT	NITOBAND CORNER INTERNAL 90°	135MM X 135MM	FC000617-UNIT	NITOBAND PIPE DETAILING SQUARE MEDIUM	<110MM
FC000615-UNIT	NITOBAND CORNER EXTERNAL 270°	135MM X 135MM	FC000618-UNIT	NITOBAND PIPE DETAILING SQUARE LARGE	<150MM
FC000613-UNIT	NITOBAND CORNER ADJUSTABLE INTERNAL	135MM X 135MM			

## Primers

### Nitoprime 115

(Previously known as Emer-Proof Primer Non-Porous)

Water-based primer for metallic, smooth, dense and non-porous substrates, such as Scyon sheeting, CFC, wet area timber, most metals, previously painted surfaces, dense concrete & PVC.



### Nitoprime 120

(Previously known as Emer-Proof Primer Porous)

Fast drying, solvent free primer for porous concrete, brick and masonry surfaces.



### Nitoprime 320PU

Fast drying primer for Fosroc Polyurea WHE110 and WPE110 systems. The product is tinted red for easy control of application thickness.



### Primer 4

Low viscosity solvent-based primer for metal surfaces prior to the application of Nitoproof 610 and Nitoproof 750 polyurethane waterproofing membranes.



PRODUCT CODE	DESCRIPTION	SIZE	PRODUCT CODE	DESCRIPTION	SIZE
FC000600-4L	NITOPRIME 115	4L	FC000601-15L	NITOPRIME 120	15L
FC007092-20KG	NITOPRIME 320PU	20KG	FC965207-250ML	PRIMER 4	250ML

Please always refer to the product TDS before making your final selection or speak to your Fosroc representative.



# Fosroc Technology Advantages & Limitations



	Waterbased Bitumen	Waterbased Acrylic	Polymer Modified Cementitious	Waterbased Epoxy	Moisture Cure Polyurethane	Waterbased Polyurethane	Hybrid Polyurea-Polyurethane	Pure Polyurea
<b>General Technology Advantages</b>	<ul style="list-style-type: none"> <li>• Contains root penetration inhibitors</li> <li>• No priming required</li> <li>• Economical</li> </ul>	<ul style="list-style-type: none"> <li>• One part</li> <li>• Low VOC</li> <li>• Direct stick to tiles</li> </ul>	<ul style="list-style-type: none"> <li>• Fast re-coat time</li> <li>• High shore hardness</li> <li>• Top coat for exposed, trafficable finishes</li> <li>• Ideal for damp, humid and cold conditions</li> <li>• Potable water approved</li> </ul>	<ul style="list-style-type: none"> <li>• Resists negative moisture pressure</li> <li>• Damp surface compatible</li> <li>• Allows vapour movement</li> </ul>	<ul style="list-style-type: none"> <li>• Very high elongation</li> <li>• Established technology</li> <li>• Resistant to aggressive soil conditions</li> </ul>	<ul style="list-style-type: none"> <li>• High elongation</li> <li>• Low solvent</li> <li>• Very low VOC</li> </ul>	<ul style="list-style-type: none"> <li>• Very fast cure</li> <li>• Tenacious bond</li> <li>• Fast application</li> </ul>	<ul style="list-style-type: none"> <li>• Very fast cure</li> <li>• Tenacious bond</li> <li>• Fast application</li> <li>• Potable water approved</li> </ul>
<b>General Technology Limitations</b>	<ul style="list-style-type: none"> <li>• Not advised for continuous immersion in water</li> <li>• Not designed for exposed conditions</li> </ul>	<ul style="list-style-type: none"> <li>• Must be tiled over</li> <li>• Cure is dependent on temperature</li> </ul>	<ul style="list-style-type: none"> <li>• Cannot be left exposed without a UV top coat</li> <li>• Doesn't resist negative moisture pressure</li> </ul>	<ul style="list-style-type: none"> <li>• Two part material</li> <li>• Rigid membrane</li> </ul>	<ul style="list-style-type: none"> <li>• Solvent based</li> <li>• High odour</li> </ul>	<ul style="list-style-type: none"> <li>• Solvent based</li> <li>• Cannot be left exposed without a UV top coat</li> </ul>	<ul style="list-style-type: none"> <li>• UV stable but not colour stable</li> <li>• Expensive equipment required to apply</li> <li>• Not suitable for potable water</li> </ul>	<ul style="list-style-type: none"> <li>• UV stable but not colour stable</li> <li>• Expensive equipment required to apply</li> </ul>



# FUTURE PROOF

## WITH FOSROC WATERPROOFING



*constructive solutions*

## **World leaders in construction solutions**

Fosroc is a world leader in the delivery of virtually any type of construction project, combining high quality products, expert technical support, customer service and innovation.

**AU 1800 812 864** [fosroc.com.au](http://fosroc.com.au)

**NZ 0800 657 156** [fosroc.co.nz](http://fosroc.co.nz)

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**Concrete Plus Ltd** 150 Hutt Park Road, Gracefield, NZ 5010

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