



Fosroc® Nitoband®

Superior sealing system for critical joint areas in place of traditional bond-breaking sealants and tapes

Uses

The Nitoband System has been developed as a superior alternative to traditional bond breaking methods for sealing critical movement zones. The Nitoband System is used in conjunction with Nitoproof water based membranes and is suitable for internal, external underground and fully immersed applications.

Advantages

- Can be used with Nitoproof water based single or 2 part liquid membrane systems
- Suitable for sealing movement joints and small expansion joints up to 25mm
- Time efficient and simplified installation – no time wasted waiting for joint sealants to sufficiently skin and cure
- High elongation and movement capabilities - able to withstand movement in both longitudinal and lateral directions
- High density, high strength rubber composition with superior water, chemical and tear resistance
- Waterproof in its own right, which offers double protection when combined with a Nitoproof water based liquid membrane over-laid
- System comes with pre-fabricated corners, pipe penetration detailing squares for superior sealing in the most critical of areas

Description

The Nitoband System is a combination of acrylonitrile butadiene rubber tape and detailing accessories designed and developed as a superior bond breaking alternative to traditional methods of sealing critical movement zones when used in conjunction with Nitoproof water based liquid applied waterproofing membranes.

Standards Compliance

The Nitoband System meets the requirements of AS 3740 and is suitable for use with Class I, Class II and Class III membrane systems as per AS4858 and AS4654.

Specification Clause

Where required, all joints and pipe penetrations are to be waterproofed using a acrylonitrile butadiene rubber flexible bond breaking tape with polyester carrier surface. The tapes, pre-fabricated corners and squares are to be used with a Nitoproof water based liquid applied membrane. The Nitoband System from Fosroc meets the performance criteria and are approved products.

Design Criteria

The substrate must be suitably prepared, clean, sound, stable and free of protrusions. It must be primed according to the substrate with either Nitoprime 115 or Nitoprime 120.

The Nitoband Tape, corners and accessories are installed first before the Nitoproof water based liquid membranes.

The Nitoband Pipe Penetration Detailing Squares need a circular cut made in the centre at 60-70% of the pipes diameter before sliding in place over the pipe.

All of the Nitoband System accessories have a fleece that is designed to be embedded into Nitoproof water based liquid membranes which ensure full adhesion to the substrate for superior sealing in these critical areas.

Physical Properties

Rubber:	NBR (acrylonitrile butadiene rubber)
Carrier Edging:	Polyester fleece with lateral flexibility
Shore A hardness:	65 - 70
Tensile strength (DIN 53504):	>1 N/mm ² lateral direction >7 N/mm ² longitudinal direction
Moisture vapour transmission resistance coefficient μ:	8.4
Equivalent air thickness sd:	5.0m
Water pressure resistance:	3 bar
Fire Class (DIN, EN):	B3, F

Chemical Resistance

Lactic acid:	5%
Acetic acid:	5%
Hydrochloric acid:	3%
Chloric acid :	3%
Sulphuric acid:	35%
Citric acid:	10%
Potassium hydroxide:	20%
Sodium hypochlorite:	(0.3g/L)
Sea water:	sea salt (20g/L)
Lime milk:	pH 12.5
Sodium hydroxide solution:	pH 14
Diesel oil, grease, oil, paraffin:	0 to 14 pH

Installation

Step 1: Apply a liberal coat of the selected Nitoproof liquid applied membrane to internal and external corner intersections approximately 150mm wide.

Step 2: Embed the Nitoband Corners into the wet membrane, making sure full saturation of the fabric edges using a brush or spatula.

Step 3: Measure and cut Nitoband Tape for all wall / floor and wall / wall junctions. Ensure that the Nitoband Tape is measured to allow for the minimum 50mm overlap onto the Nitoband Corners.

Step 4: As with the corners previously; Apply a liberal coat of the same liquid membrane to the surface of the wall / floor and/or wall / wall junction approximately 150mm.

Step 5: Embed the pre-cut Nitoband Tape into the wet membrane, ensuring full saturation of the fabric edges. Remove any air pockets, voids or creases that may have occurred during installation by way of brush or spatula.

Nitoband Tape

Nitoband Tape is a nitrile butadiene rubber flexible bond breaking tape with polyester fabric carrier surface and edge to embed into Nitoproof water-based liquid membranes. 120mm x 10m dimensions with a 70mm span of rubber centrally positioned.

Nitoband Tape is a wet area grade Elastic Joint Band, designed for use in waterproofing critical movement zones within internal and external wet areas.

Nitoband Tape performs as the waterproofing system bond breaker, avoiding the use of sealant beads and backing rod bond breaker methods.

Nitoband Tape is also suitable for sealing movement joints and small expansion joint areas up to 25mm.

Nitoband Corners

270° degree external, 90° internal and adjustable internal corners.

Nitoband pre-fabricated corner sections are designed for use in waterproofing corner intersections to provide a seamless high strength elastic seal.

They are suitable for internal and external wet areas, immersed and underground areas.

The pre-fabricated corner sections perform as an integral part of the waterproofing system bond breaker, used in conjunction with the Nitoband Tape.

As per the Nitoband Tape, the Nitoband Corners consist of a fleece covered nitrile butadiene rubber flexible bond breaking tape with polyester fabric carrier edge to embed into Nitoproof water-based liquid membranes.

This high strength elastic system is compatible with water based polyurethane, cementitious, bituminous, acrylic membranes and precludes the need for sealant beads and backing rod bond breaker methods.

The Nitoband Corners provide time saving application time and an assurance of a waterproof seal in the most critical area of the waterproofing application.

Nitoband Corners are suitable for use in Class I, II and III membrane systems as per AS4858 and AS4654.

Nitoband Pipe Penetration Detailing Squares

The Nitoband Pipe Penetration Detailing Squares are designed for providing a high strength elastic seal around pipes and penetrations for general and specialised waterproofing applications.

Once positioned over pipes, the collars form a water tight rupture proof seal.

The enhanced elastic recovery and high tensile strength properties of the collars protect the seal against substrate or force generated movement during the life of the waterproofing system.

To position the collar in place, the diameter of the pipe is first measured. A circular cut is made in the centre of the collar at 60-70% of the pipes diameter, e.g. if the pipe is 100mm diameter, a circular cut of 60-70mm is formed in the centre of the collar.

The collar is then slid over the pipe and positioned in place to the substrate.

The surface of the collars consists of a polyester fleece that is designed to be embedded into Nitoproof water-based liquid membranes that are used as part of the application.

The fleece should be embedded into the liquid membrane once the rubber collar is in position, ensuring full adhesion to the substrate.

Supply

	Material Code
Nitoband Tape 120mm wide x 10m Roll	FC000612-UNIT
Nitoband Corner Internal 90° 135mm x 135mm – Each	FC000614-UNIT
Nitoband Corner External 270° 135mm x 135mm – Each	FC000615-UNIT
Nitoband Corner Adjustable Internal 135mm x 135mm – Each	FC000613-UNIT
Nitoband Pipe Detailing Square Small For pipes <50mm - Each	FC000616-UNIT
Nitoband Pipe Detailing Square Med. For pipes < 110mm - Each	FC000617-UNIT
Nitoband Pipe Detailing Square Large For pipes < 150mm - Each	FC000618-UNIT

Storage

Store in clean and dry conditions.

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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.



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