

Emer-Proof Elastic Joint Band System

Superior sealing system for critical joint areas over traditional bond-breaking sealants and tapes

USES

The Emer-Proof Elastic Joint Band System has been developed as a superior alternative to traditional bond breaking methods for sealing critical movement zones. The Emer-Proof Elastic Joint Band System is suitable for internal, external underground and fully immersed applications.

ADVANTAGES

- Can be used with 'All' Emer-Proof water based single or 2 part liquid membrane systems
- Superior sealing system for critical areas over traditional bond breaking sealants and tapes
- 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 their own right, which offers double protection when combined with an Emer-Proof water based liquid membrane over-laid
- System comes with pre-fabricated corners, pipe penetration detailing squares as well as a floor waste leak control flange butyl detailing collar for superior sealing in the most critical of areas

STANDARDS COMPLIANCE

The Emer-Proof Elastic Joint Band System is an approved bond breaker, conforming to AS 3740 and is suitable for use in Class I, Class II and Class III membrane systems as per AS4858 and AS4654.

TECHNICAL SUPPORT

Parchem offers a comprehensive range of high performance, high quality waterproofing and construction products. In addition, Parchem offers a technical support package to specifiers, contractors and end-users, as well as on-site technical assistance.

DESCRIPTION

The Emer-Proof Elastic Joint Band System is a combination of tape and detailing accessories designed and developed as a superior bond breaking alternative to traditional methods of sealing critical movement zones.

SPECIFICATION CLAUSE

Where required, all joints and pipe penetrations are to be waterproofed using a nitrile butadiene rubber flexible bond breaking tape with polyester carrier surface. The floor waste is to be waterproofed using a detailing collar consisting of a rear butyl rubber layer on a fleece fabric square. The tapes, pre-fabricated corners and squares are to be used with an Emer-Proof water based liquid applied membrane. The Emer-Proof Elastic Joint Band System from Parchem Construction Supplies meet the performance criteria and are approved products.

DESIGN CRITERIA

The substrate must be suitably prepared, clean, sound, stable and free of protrusions in accordance with Parchem's instructions. It must be primed according to the substrate with either, Emer-Proof Multi-Purpose Primer and Additive for porous and Emer-Proof Non-Porous Primer for non-porous substrates.

The Emer-Proof Elastic Joint Band tape, corners and accessories are installed first before the Emer-Proof water based liquid membranes.

The Emer-Proof Elastic Joint Band Pipe Penetration Detailing Squares have a circular cut made in the centre at 60-70% of the pipes diameter before sliding in place over the pipe.

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

Step 1: Apply a liberal coat of one of the Emer-Proof 'water-based' liquid applied membranes to internal and external corner intersections approximately 150mm wide.

Step 2: Embed the Emer-Proof Elastic Joint Band Corners into the wet membrane, making sure full saturation of the fabric edges using a brush or spatula.

Step 3: Measure and cut Emer-Proof Elastic Joint Band Tape for all wall / floor and wall / wall junctions. Ensure that the Emer-Proof Elastic Joint Band Tape is measured to allow for the minimum 50mm overlap onto the Emer-Proof Elastic Joint Band 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 Emer-Proof Elastic Joint Band 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.

PRODUCT OVERVIEW

Emer-Proof Elastic Joint Band Tape

Emer-Proof Elastic Joint Band Tape is a nitrile butadiene rubber flexible bond breaking tape with polyester fabric carrier surface and edge to embed into Emer-Proof water-based liquid membranes. 120mm x 50m dimensions with a 70mm span of rubber centrally positioned.

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

Emer-Proof Elastic Joint Band Tape performs as the waterproofing system bond breaker, avoiding the use of sealant beads and backing rod bond breaker methods.

Emer-Proof Elastic Joint Band Tape is also suitable for sealing movement joints and small expansion joint areas up to 25mm.

PACKAGING

50m Roll length



PRODUCT PROPERTIES

| | |
|---|--|
| Shore A hardness: | 70 |
| Temperature Resistance: | -20°C to 90°C |
| Tensile strength (DIN 53504): | >1.0 N/mm ² lateral direction >7.0 N/mm longitudinal direction |
| Rupture strain (DIN 53504): | >300% lateral direction >48% longitudinal direction |
| Moisture vapour transmission resistance coefficient μ : | 9 |
| 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 |

PRODUCT OVERVIEW

Emer-Proof Elastic Joint Band Corners – 270° degree external, 90° internal and adjustable internal corners

Emer-Proof Elastic Joint Band 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 Emer-Proof Elastic Joint Band Tape. As per the Emer-Proof Elastic Joint Band Tape, the Emer-Proof Elastic Joint Band Corners consist of a fleece covered nitrile butadiene rubber flexible bond breaking tape with polyester fabric carrier edge to embed into Emer-Proof 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 Emer-Proof Elastic Joint Band Corners provide time saving application time and an assurance of a waterproof seal in the most critical area of the waterproofing application.

Emer-Proof Elastic Joint Band Corners are suitable for use in Class I, II and III membrane systems as per AS4858 and AS4654.

SIZES

135mm x 135mm

PRODUCT PROPERTIES

| | |
|------------------|---|
| Rubber: | NBR (acrylonitrile butadiene rubber) |
| Carrier Edging: | Polyester fleece with lateral flexibility |
| Dimensions: | 135mm x 135mm x 55mm high |
| Thickness: | 0.60mm-0.80mm |
| Rubber width: | 70mm span |
| Material weight: | 50g/m |
| Surface face: | Fleece lamination |

PACKAGING

Each or cartons of 50 units per carton

PHYSICAL PROPERTIES

| | |
|---|---|
| Shore A hardness: | 70 |
| Temperature Resistance: | -20°C to 90°C |
| Tensile strength (DIN 53504): | >1.0 N/mm ² lateral direction >7.0 N/mm ² longitudinal direction |
| Moisture vapour transmission resistance coefficient μ : | 9 |
| Equivalent air thickness sd: | 5.0m |
| Water pressure resistance: | 3 bar |
| Fire Class (DIN, EN): | B3, F |

PRODUCT OVERVIEW

Emer-Proof Elastic Joint Band Pipe Penetration Detailing Squares

The Emer-Proof Elastic Joint Band 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 Emer-Proof 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.

SIZES:

Small: 120mm x 120mm – Suitable for pipes up to 50mm

Med: 250mm x 250mm – Suitable for pipes up to 110mm

Lrg: 350mm x 350mm – Suitable for pipes up to 150mm



PRODUCT PROPERTIES

Rubber: NBR (acrylonitrile butadiene rubber)

Carrier Edging: Polyester fleece with lateral flexibility

Thickness: 0.60mm-0.80mm

Surface face: Fleece lamination

PACKAGING

Each or cartons of 25 units per carton

PHYSICAL PROPERTIES

Shore A hardness: 70

Temperature Resistance: -20°C to 90°C

Tensile strength (DIN 53504):

>1.0 N/mm² lateral direction

>7.0 N/mm² 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

PRODUCT OVERVIEW

Emer-Proof Butyl Rubber Floor Waste Detailing Collar

The Emer-Proof Butyl Rubber Floor Waste Detailing Collar is a fleece fabric square with a rear butyl rubber layer to enable direct adhesion to non-porous surfaces.

The butyl rubber provides a waterproof layer that is rupture resistant, forming an immediate seal, without requiring drying time to be effective.

The Emer-Proof Butyl Rubber Floor Waste Detailing Collar is ideally suited for sealing over plastic plumbing floor flanges (such as leak control flanges and safe waste trays), stainless steel fixtures or trays, metal drain surfaces and the intersection between non porous building substrates.

Primary advantages of the Emer-Proof Butyl Rubber Floor Waste Detailing Collar include: time saving with less than a minute to install over standard floor drains; no primer required to adhere over non porous surfaces; and an immediate waterproof seal.

The outer edge surface of the Butyl Square consists of a polyester fleece edge that is to be embedded into one of the several Emer-Proof water-based liquid membranes once the butyl rubber is adhered to the surface.

The rear face of the Emer-Proof Butyl Rubber Floor Waste Detailing Collar is covered with release paper which is removed just before installation.



SIZE:

250mm x 250mm

PRODUCT PROPERTIES

| | |
|-----------------|---|
| Rubber: | Butyl Rubber (grey colour) |
| Carrier Edging: | Polyester fleece with lateral flexibility |
| Thickness: | 0.8mm |
| Surface face: | Fleece lamination |

PACKAGING

Each or cartons of 25 units per carton

PHYSICAL PROPERTIES

| | |
|--|----------------|
| Solids: | 100% |
| Temperature Resistance: | -40°C to 100°C |
| Tensile strength (EN 12311.1): >100 N longitudinal and transversedirections | |
| Elongation at break (EN 12311.1): | >70% |
| Peel adhesion (ASTM D1000): | >80N |
| Loop Tack Test (ASTM D6195): | >70N |
| Vertical Flow (ISO 7390) | <10mm |

ESTIMATING

SUPPLY

743265 Emer-Proof Elastic Joint Band Tape 120mm x 50m roll

743270 Emer-Proof Elastic Joint Band Inside Corner
Single units, or 50 per box

743275 Emer-Proof Elastic Joint Band Outside Corner
Single units, or 50 per box

743125 Emer-Proof Elastic Joint Band Adjustable Inside Corner – Single units or 50 per box

743126 Emer-Proof Elastic Joint Band Pipe Penetration Detailing Square - Small - Single unit or 50 per box

743127 Emer-Proof Elastic Joint Band Pipe Penetration Detailing Square - Medium - Single unit or 50 per box

743128 Emer-Proof Elastic Joint Band Pipe Penetration Detailing Square - Large - Single unit or 50 per box

743129 Emer-Proof Butyl Square Floor Waste Detailing Collar – Single unit or 25 per box

STORAGE CONDITIONS

Store in clean and dry conditions.

MAINTENANCE

No special requirements, any damage identified during normal inspections should be repaired or replaced as appropriate.

ADDITIONAL INFORMATION

Parchem provides a wide range of complimentary products which include:

- Waterproofing membranes – liquid applied, cementitious and bituminous sheet membranes
- Architectural coatings
- Joint sealants – building, civil and chemical resistant
- Waterstops – pvc and swellable
- Industrial flooring systems – cementitious and epoxy
- Concrete repair – cementitious and epoxy
- Filler boards – swellable cork, bituminous and backing rod
- Grouts and anchors – cementitious and epoxy
- Ancillary products

For further information on any of the above, please consult with your local Parchem sales office.

IMPORTANT NOTICE

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. 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.