

Emer-Proof Ecoflex Anti-Root

Polymer modified bitumen liquid membrane with plant root inhibitors

USES

- Planter boxes
- Garden beds
- Retaining walls, underground waterproofing
- General areas in contact with soil, plants
- Protective coating over bituminous sheet membranes in underground areas

ADVANTAGES

- Low VOC (0.065 grams per litre)
- Anti-root properties to inhibit plant root penetration in earth filled applications
- Australian Made
- Outstanding adhesion properties to primed surfaces
- Able to be applied to damp surfaces (free of surface water)
- Does not re-emulsify once cured
- Flexible / tough and durable
- Solvent free, non-flammable and user friendly

DESCRIPTION

Emer-Proof Ecoflex Anti-Root is a polymer modified bituminous liquid membrane that contains root inhibitors to prevent the penetration of root growth through the cured membrane surface.

Designed for use as a waterproof membrane in subterranean areas such as planters, retaining walls, garden beds or general areas exposed to earth and soil.

Water based and solvent free, Emer-Proof Ecoflex Anti-Root has excellent adhesion properties to a number of building surfaces, including many bituminous sheet membrane surfaces*. Able to be used in high build applications by roller, spatula or trowel on vertical and horizontal surfaces.

*Sheet membrane surfaces vary, therefore adhesion compatibility tests are recommended.

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.

PROPERTIES

Data quoted is typical for this product, but does not constitute a specification.

Solids:	70%
Colour:	Black/ Charcoal - Wet Black - Dry
Tensile strength:	0.5 MPa
Water Vapour Transmission:	1.35g/24h/m ²
Elongation:	>330%
Shore A Hardness:	58

COVERAGE

Emer-Proof Ecoflex Anti-Root should be applied in 2-3 coats and have a dry film thickness of 1-1.2 mm. Coverage will vary depending on the porosity and condition of substrate.

Approximate total coverage: 1.5-2litres/m², applied at a minimum of 2 coats. For heavier sealing properties, coverage can be increased with subsequent coats if required.

Approximate total coverage: 1.5-2L/m²

Wet Film Thickness = 1.2-1.5mm

Dry Film Thickness = 1-1.2mm

SPECIFICATION CLAUSE

Where required, a water based bituminous rubberised liquid membrane, containing root inhibitors, is to be applied to offer a durable and waterproof area. The membrane must be low VOC, Australian made and non-toxic. The Emer-Proof Ecoflex Anti-Root from Parchem Construction Supplies meet the performance criteria and is

an approved product.

DESIGN CRITERIA

All cracks >2mm must be suitably prepared and 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 System should be installed first in accordance with the Technical Data Sheet for the system.

The stirred Emer-Proof Ecoflex Anti-Root is laid onto the surface continually in one direction and each successive coat should be applied perpendicular to the previous coat. Allow 2-4 hours for film to dry between coats, use 2-3 coats to achieve a dry film thickness of 1.2 mm and a uniform coverage.

Emer-Proof Ecoflex Anti-Root should be protected from mechanical damage with Impraboard, or Emer-proof Drain V drainage and protection sheet, available from Parchem.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

All surfaces to be coated are to be clean, sound and dry, free of mould release agents, bond breaking coatings, curing compounds, sharp protruding surfaces, loose material, de-bonded coatings, wax residues, algae and moss, grime, oils, animal fats, or grease remains or any other contamination that may affect the membrane.

Concrete surfaces should be smooth, any imperfections, pinholes etc., are to be filled and the surface made smooth.

Contact your local Parchem branch for suitable concrete repair products from our extensive range.

Concrete must be cured for 28 days; sand / cement screeds need to be cured for 7 days.

Surfaces must be dry, suitably prepared and in a sound state prior to beginning the application.

PRIMING

Substrates must be primed, prior to the application of Emer-Proof Ecoflex Anti-Root.

Primer choice is defined by substrate requirements:

- For porous masonry surfaces, Emer-Proof Multi-Purpose Primer and Additive may be selected (see TDS for further details)
- For non-porous substrates, such as metals and plastics, Emer-Proof Non-Porous Primer may be selected (see TDS for further details).

DAMP SURFACES - ENTRAPPED MOISTURE

Seek technical advice from Parchem.

CRACKS

Cracks larger than 2 mm or structural shrinkage cracks must be firstly cleaned and any loose material removed then filled with Emer-Seal MS sealant or covered with Emer-Proof Elastic Joint Band Tape. See Emer-Proof Elastic Joint Band System technical data sheet.

EMER-PROOF ELASTIC JOINT BAND TAPE, CORNERS AND DETAILING ACCESSORIES

The Emer-Proof Elastic Joint Band System has been specifically developed by Parchem as a superior bond breaker system to traditional sealants and bond breaker tapes.

The Emer-Proof Elastic Joint Band System includes tape (for change of direction – such as wall/wall and wall/floor joints etc.), both 270° external and 90° internal corners, an adjustable internal corner as well as three (3) size variations on pipe detailing squares (suitable from 6mm > 150mm pipe diameters). Parchem also incorporate a fully fleeced, self-adhesive butyl rubber floor waste detailing collar that is suitable for all wet area leak control flanges, for optimum sealing capabilities.

If being used in tanking and waterproofing applications, the Emer-Proof Ecoflex Anti Root requires a suitable bond breaker at all substrate junctions. Parchem nominates the Emer-Proof Elastic Joint Band System which includes tape, corners and pipe penetration detailing squares or equivalent bond breaking methods compliant with local waterproofing standards and building recommendations.

APPLICATION

Ensure the surface has been appropriately prepared in accordance with this TDS.

Emer-Proof Ecoflex Anti-Root may be applied with a roller (12 mm nap recommended), brush or standard airless sprayer (piston pump unit, 21 -25 thou tip size - thoroughly mix product before spraying). Its smooth texture and non-sag formulation make it suitable for vertical and horizontal application.

The Emer-Proof Elastic Joint Band System should be installed first. Apply the Emer-Proof Ecoflex Anti-Root across the substrate joins extending approximately 70mm either side of the join.

Whilst the Emer-Proof Ecoflex Anti-Root is still in a wet state install the Emer-Proof Elastic Joint Band tape, corners and accessories ensuring that all air voids are expelled. Emer-Proof Elastic Joint Band Corners should be placed in first followed by the Emer-Proof Elastic Joint Band Tape.

The Emer-Proof Elastic Joint Band tape, corners and pipe detailing squares can be joined via a 50mm overlap, sandwiching a small amount of Emer-Proof Ecoflex

Anti-Root liquid membrane between the overlapping faces.

Emer-Proof Ecoflex Anti-Root is laid onto the surface continually in one direction; it should not be brushed out. Brooms, brushes etc. should be regularly washed during the operation and at any breaks as follows: Keep available a container filled with sufficient strong detergent/water solution to fully cover the broom or brush. Soak the brush in the solution and shake out before use. As work progresses, rinse the brush at frequent intervals to prevent it clogging, and again shake out before resuming. Ensure the detergent is thoroughly washed out of the brush or broom with clean water before resuming. During any breaks in work the brushes should be left to soak in this solution.

Each successive coat should be applied at 90 degrees to the previous coat. Allowing a drying time of 2-4 hours between coats.

Conduct a final inspection on the surface of the membrane prior to commencing back-filling to ensure no pinholes exist. A further coat may be required if imperfections or pinholes are present in the membrane.

MIXING

Emer-Proof Ecoflex Anti Root membrane should be lightly stirred before using, and can be applied to both vertical and horizontal surfaces using a roller or brush.

RECOATING

Emer-Proof Ecoflex Anti-Root may be recoated between 2 and 4 hours after previous coat has been allowed to dry. Shorter times may be acceptable in good drying times.

PROTECTION

Where the membrane is to be backfilled, such as with basement applications, Emer-Proof Ecoflex Anti-Root should be protected from mechanical damage with Impraboard or Emer-Proof Drain V drainage/protection system; also available from Parchem.

CLEANING

Product while in a wet state will clean up with water. Once dried, the product will need to be removed by mechanical means or with solvent cleaners. When cleaning with water, ensure water runoff does not enter drains.

Splashes of Emer-Proof water based membrane on paintwork etc. should be wiped off immediately using a cloth dampened with a strong detergent solution. Brushes and brooms etc. should be soaked in a strong detergent solution immediately after application has finished. Hands and skin may be cleaned using a proprietary waterless hand cleaner, but prevention of soiling is a better practice by wearing gloves and overalls.

Where Emer-Proof Ecoflex has been allowed to dry on equipment or surfaces it may be removed using either Solvent 10 or mechanical means.

MAINTENANCE

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

LIMITATIONS

Emer-Proof Ecoflex Anti Root is not resistant against the roots of large trees or large plants that are positioned in close proximity to the membrane surface

- Not designed for use as a trafficable membrane
- Not to be used in immersed areas such as ponds, aquatic areas
- Not to be used as membrane under tiles, screeds, renders etc. where direct adhesion is required
- If applying over other membrane surfaces, a compatibility test is recommended first to observe if there are any reactions of the dried membrane film over the existing surface.

Emer-Proof Ecoflex Anti-Root is not resistant to solvent surfaces or in contact with solvent based materials.

DRYING TIMES

Recoat: 2 - 4 hours

Dry film: 24 hours

Backfilling, covering over: 4 days. Ensure surface is cured before back filling

Based on normal ambient conditions of 23°C @ 50% r.h.

Drying times @ 10°C – allow a 'minimum' 24 hours extra drying time on standard recommendations at this temperature.

PLEASE NOTE:

Application of all liquid applied membranes and primers should always refer to the surface temperature conditions before commencing and not just ambient temperatures. (There are limitations to how hot/cold the surface temperature can be, when applying liquid based membrane or primer).

For example: ambient temperatures may be 10°C but the substrate could be 0°C and have frost issues. The same applies with higher temperatures: ambient temperature may be 26°C but have a substrate temperature of 36°C

PACKAGING

15L

ESTIMATING SUPPLY

743100 - Emer-Proof Ecoflex Anti Root – 15L Pail
(1.5-2L/m² total)

743124 - Emer-Proof Non-Porous Primer – 1L Pail (1L/10m²)

743123 - Emer-Proof Non-Porous Primer – 4L Pail (1L/10m²)

743121 - Emer-Proof Multi-Purpose Primer and Additive
4L Pail (1L/6-8m²)

743120 - Emer-Proof Multi-Purpose Primer and Additive
15 L Pail (1L/6-8m²)

743265 - Emer-Proof Elastic Joint Band Tape
120mm W x 50M Roll

743270 - Emer-Proof Elastic Joint Band Corner Internal 90°
135mm x 135mm – Each or 50/Box

743275 - Emer-Proof Elastic Joint Band Corner External 270°
135mm x 135mm – Each or 50/Box

**743125 - Emer-Proof Elastic Joint Band Corner Adjustable
Internal** – 135mm x 135mm – Each or 50/Box

743126 - Emer-Proof Pipe Detailing Square Small
Each or 50/Box

743127 - Emer-Proof Pipe Detailing Square Medium
Each or 50/Box

743128 - Emer-Proof Pipe Detailing Square Large
Each or 50/Box

**743129 - Emer-Proof Butyl Square Floor Waste Detailing
Collar** – Each or 25/Box

405015 - Emer-Proof Aquabarrier (Grey) – 20L Two Part Kit
(1L/1.5m² per coat)

STORAGE

SHELF LIFE

12 months if kept in a cool, dry store.

STORAGE CONDITIONS

Store in dry conditions at temperatures between 5°C and 30°C in the original, unopened containers. If stored at high temperatures, the shelf life may be reduced.

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.