

Reinforced bituminous sealing tape for pre-cast concrete

Uses

Conwrap is an externally applied tape for sealing joints in pre-cast elements such as box culverts.

Conwrap is normally used in conjunction with internally placed Conseal CS231 sealing strip.

Advantages

- Single layer application
- Cost efficient
- Lends itself to neat effective detailing
- High strength material provides excellent resistance to tearing and abrasions from back filling
- Aggressively bonds to concrete and metal structures
- Provides a permanent flexible watertight seal
- Has greater puncture resistance, thus reducing site damage possibilities
- Conwrap remains flexible; it will not become brittle and crack either with cold weather or with aging
- Its thickness is constant throughout. It is factory controlled and not subject to variation by labour on-site
- It is thoroughly jointed on site by pressing and rolling laps together for a permanent, watertight seal

Description

Conwrap is a self-adhesive bituminous membrane incorporating a cross laminated HDPE film. The bitumen compounds used to manufacture the product are modified with SBS to promote maximum adhesion to the substrate. The HDPE film provides the product with excellent physical and application properties.

Technical Support

Parchem offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance.

Properties

| | |
|--|-------------------------------|
| Form: | Self-adhesive laminated sheet |
| Colour: | Charcoal grey |
| Total thickness: | 1.6 mm |
| Mass: | 1.6 kg/m ² |
| Water vapour transmission ASTM E96: | 0.05 g/m ² h |
| Tensile strength longitudinal ASTM D638: | > 43 N |
| Ultimate elongation ASTM D638: | > 380% |
| Resistance to tear UNI 8202/9: | > 73 N |
| Cold flexibility DIN 52123: | < -40°C |
| Application temperature: | 5°C - 45°C |
| Service temperature (continuous ambient): | -30°C - +80°C |

Installation Instructions

Typical for Joints in Concrete Culverts.

Surface preparation

To ensure adequate bonding of the Conwrap, the concrete surface must be free from dirt, water, grease and other loose material.

Rough concrete must be "faired up" before application begins. Holes and cracks should be filled or repaired using suitable repair materials. Parchem can assist with selection of these material.

Priming

Priming the concrete surfaces to which the Conwrap is to be applied is recommended to ensure maximum adhesion. Emer-Proof Self Adhesive Primer is the recommended primer which can be used directly from the container with a brush.

Coverage width should exceed Conwrap width by 50 mm either side.

Coverage rate of the primer on concrete is approx. 6 m²/litre.

Allow primer to dry until touch dry – approx. 15 minutes @ 25°C.

Prime only the areas that will be covered with the Conwrap in a working day. Areas not covered within 24 hours must be reprimed.

Conwrap

Placement of the Conwrap strip

Remove release paper at the start of the roll.

Place the strip in position at the crack or joint and unroll removing the release paper at the same time.

Press the strip on to the concrete to form the shape of the surface and to remove any air pockets. All strips should be rolled firmly into place.

Overlaps should be a minimum 50 mm.

Protection before backfilling

Conwrap is not suitable for long term exposure to UV. The membrane should therefore be protected in some way within 3 months of application. When the membrane is to be backfilled such as with culvert applications, Conwrap should be protected from physical damage by using Proofex Protection Board PP, also available from Parchem.

Estimating

Supply

Conwrap:

150 mm wide, 20 m long roll (other sizes made to order)

Emer-Proof Self Adhesive Primer:

4 litre and 20 litre pail

Coverage

Emer-Proof Self Adhesive Primer:

Approx. 6 m²/litre

Note: no allowance has been made for wastage.

Storage

12 months in original containers stored in cool, dry conditions i.e. not exceeding 25°C. Storage above this temperature may reduce storage life.

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.

