

Aquawrap

Technical Guide D10.16

Aquawrap is butyl rubber sleeve designed to provide a watertight seal around manhole, pipe or box culvert joints. It can also be used to prevent corrosion, resists harsh soil conditions and also provides a root barrier for any crack or joint.



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Applications

Used in areas with high water tables
Used in areas prone to ground movement
Larger diameter MH & pump station joints and connections between plastic pipes and concrete etc

Product Attributes

Provides a watertight seal around any manhole, pipe or box culvert joint
Adheres to all surfaces including concrete, earthenware, plastics (PVC, PE, PP)
Installs easily with no special tools and can be immediately backfilled

Approvals/Standards

JC/T942 Butyl Rubber Adhesive Tape for waterproofing and sealing

Quality

Certificate and testing for peel and shear adhesion
Certificate and testing for heat resistance & low temperature flexibility

We are the supply partner of choice for New Zealand's civil construction industry, specialising in water and infrastructure based solutions.

HYNDS
PIPE SYSTEMS

Helps to prevent infiltration into manholes and other concrete underground structures.

Specification

- Sleeve is made of a stretchable, self-shrinking EPDM rubber.
- The back side of the sleeve is coated with a cross-linked re-enforced butyl adhesive.
- Butyl adhesive is a non-hardening sealant with a minimum width of 150mm (other widths are available on request).
- Sleeve is designed to stretch around the joint and then overlapped creating a cross-link and fused bond between the rubber and butyl adhesive.
- Aquawrap comes in 10m rolls to form a continuous rubber seal across joints to prevent water and soil from infiltrating through the manhole, pipe or box culvert joint.

How much money can Aquawrap save you?

One manhole leaking 10L/minute will leak 15m³ per day. If the cost of treating wastewater is \$2m³, then this single Manhole with a 10L/minute leak costs more than \$10,000 per year, forever!

TABLE 1 Annual cost per m³ to treat wastewater

Size of Leak litres/minute	\$1.00	\$1.50	\$2.00	\$2.50	\$3.00
5	\$2,628	\$3,942	\$5,256	\$6,570	\$7,884
10	\$5,256	\$7,884	\$10,512	\$13,140	\$15,768
15	\$7,884	\$11,826	\$15,768	\$19,710	\$23,652
20	\$10,512	\$15,768	\$21,024	\$26,280	\$31,536

TABLE 2 Product Code

Hynds Code	Product Code
AQUAWRAP10M	Rubber Wrap Butyl 10m x 150mm Wide Aquawrap
AQUAWRAP225	Rubber Wrap Butyl 10m x 225mm Wide Aquawrap
AQUAWRAP300	Rubber Wrap Butyl 10m x 300mm Wide Aquawrap

Installation



1
Expose the area that is to be sealed. Clean the entire area around the joint with a wire brush and broom. Remove any sharp protruding edges around the joint with an abrasive tool. When finished cleaning, the entire area must be dry and free of any dirt, grease or oil to ensure good adhesion.

2
Remove the first foot of paper backing from the mastic. Centre and place the Aquawrap around the joint. Continue to remove paper backing as you apply the Aquawrap to the entire structure.

3
Seal the overlapping area with a 150mm overlap. Be sure not to stretch material at the overlap area.

4
Cut excess material using a knife. Using a rubber mallet or hand held roller, firmly flatten the Aquawrap 360 degrees around joint.

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Disclaimer: While every effort has been made to ensure that the information in this document is correct and accurate, users of Hynds product or information within this document must make their own assessment of suitability for their particular application. Product dimensions are nominal only, and should be verified if critical to a particular installation. No warranty is either expressed, implied, or statutory made by Hynds unless expressly stated in any sale and purchase agreement entered into between Hynds and the user.