



Construction Products

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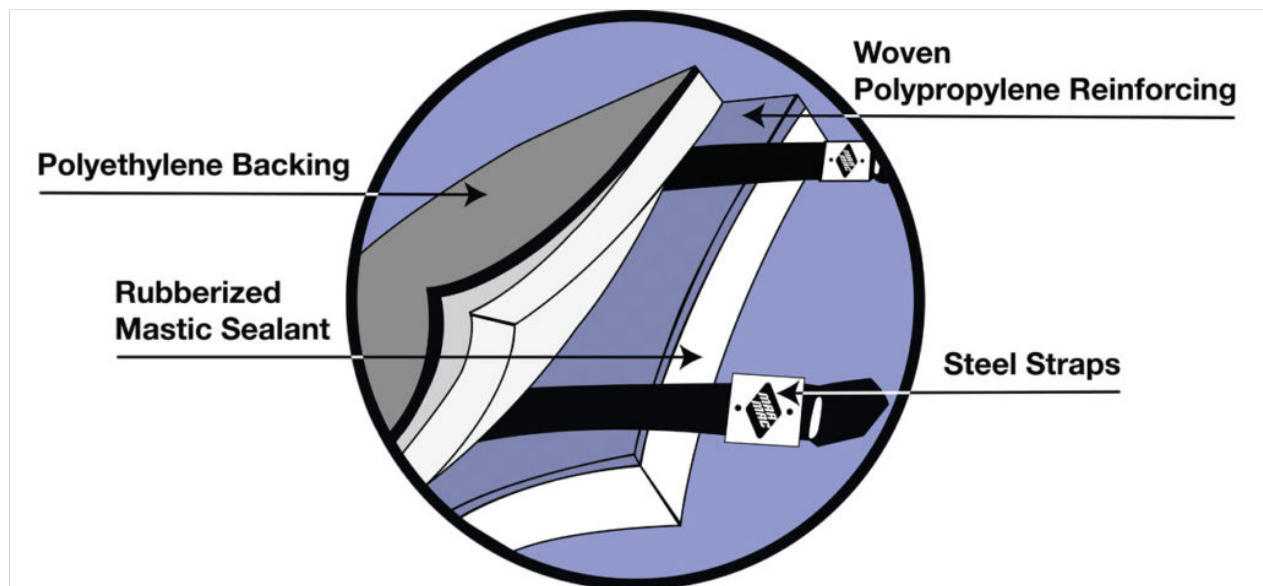
Mac Wrap for Precast Structures

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Mar Mac's MacWrap is our flagship external joint seal for use on a variety of precast reinforced concrete structures to prevent infiltration and exfiltration at both vertical and horizontal connections and joint gaps. MacWrap has proven its ability to seal joints on storm-water retention systems, box culverts, junction boxes, septic and many other precast structures. MacWrap has successfully sealed thousands of precast systems across North America relying on 4 crucial components which work in conjunction to provide a superior sealing system in a single self-contained unit.

1. MacWrap utilizes specially formulated aggressive rubberized mastic which once applied "cold flows" into the pours of concrete, bonding permanently with the structure wall and preventing any infiltration of foreign materials or contaminants into the precast system.
2. MacWrap utilizes a minimum of two high tensile steel compression bands which permanently secure the coupler in optimal position before and after backfill. These securing bands also compress the mastic undersurface of the coupler into the structure wall, forming an instant seal against infiltration even before backfill. With the use of high strength tensioning ratchets to restrain, no extra tools, open flames, or additional priming agents are typically needed.
3. MacWrap is unique in that the couplers are manufactured with an internalized bonded layer of woven polypropylene, greatly increasing puncture resistance and shear strength compared to some sealing bands extruded only from a mastic material.
4. All MacWrap couplers are protected by laminated backing, typically a heavy duty layer of Polyethylene which is inert to acids, alkalines, and other potentially corrosive and dangerous pollutants commonly entrained in soil or groundwater. Mac Wrap can also be manufactured with alternative backings to resist high concentrations of hydrocarbons, PCBs, and to prevent degradation from long-term UV exposure for above ground applications.





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Mac Wrap for RCP & Manholes

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Mar Mac's MacWrap for RCP and Manholes is an advanced external joint coupler specifically designed for preventing infiltration at connections of Reinforced Concrete pipe, Manhole sections, and many other round or elliptical concrete structures.

MacWrap exceeds ASTM C 877 (Type II), the industry standard for external joint seals for RCP and structures, by integrating several unique components into a single customizable full perimeter external sealing band. With tens of thousands of these couplers installed and performing successfully throughout North America, MacWrap has proven to be the premiere solution for even the most challenging of installations and has become the "go to" solution for when it really matters.

MacWrap utilizes our specially formulated and aggressive mastic base layer, which adheres aggressively to concrete, and continues to "cold flow" at typical ground temperatures, actually increasing its bonding ability over time by penetrating exposed pores and permanently bonding with the pipe wall.

MacWrap's initial bonding ability is enhanced further by the integration of internalized steel compression bands within the coupler, a minimum of one to fall on either side of the joint gap. These high tensile straps in combination with integrated tensioning ratchets allow the installer to quickly and easily secure MacWrap in proper position before back fill, and compress the mastic undersurface of the coupler into the pipe wall. This eliminates common problems with settlement at the joint and allows for quick, easy, and safe installation without the need for open flames, additional primers, extra tools, or other potentially hazardous materials in the open trench.

Unlike sealing bands composed solely of plastic backed extruded mastic, MacWrap has an internally laminated layer of high shear strength woven polypropylene. This unique feature greatly increases puncture and shear resistance, and even allows for flexibility of the joint coupler to accommodate some settlement at the joint gap and helps prevent rocky backfill from tearing or penetrating therefore causing preventable infiltration.

All Mar Mac MacWrap pipe seals are protected from corrosion, acids, alkalines and other commonly entrained pollutants by a heavy duty backing. Our standard couplers use a heavy Polyethylene, one of the most chemically inert materials available, making MacWrap a permanent infiltration barrier. MacWrap can also be manufactured with custom backings to resist and prevent infiltration of high concentrations of hydrocarbons commonly found near airports and transportation hubs. Even UV resistant backings are available for permanent above ground installations.

Our exclusive manufacturing process for MacWrap allows for unrivaled customization, short production times and a demanding quality control system in order to provide the best possible permanent and superior infiltration proof barrier.





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Mac Wrap Installation Guide

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Step 1:

Sweep or brush external portion of the joint to insure foreign materials do not interfere with the direct contact between the mastic sealer and the joint to be sealed.

The collar shall be placed around the joint and the protective plastic film removed, exposed mastic side to the joint and spanning the joint

Step 2:

Insert the lose strap and through slot in the take-up shaft. Push down and up on handle to apply tension. Once proper tension has been achieved push handle down to lock into position.

Note: Excess strap may be cut off or tucked back into strap tubing.

Step 3:

Remove protective film from the closing flap to cover the two tensioning ratchets and straps, completing joint.

