

replacement cost.

Global Marine Protection Services, Ltd.

Groyne and Breakwall Protection System

Working toward a solution for the problems involved with the many deteriorating groynes and breakwalls in the Great Lakes area. We can refurbish your existing groynes and breakwalls, from a severely deteriorated condition, to a like new condition that will resist Mother Nature's damaging effects for many years to come, at a fraction of

The process consists of replacing severely deteriorated groyne/breakwall steel, with new steel "to get it's structural strength back".

Water washing to remove algae and debris from the steel surface.

Application of the surface tolerant, environmentally friendly Cantex Coatings Ltd. Premier Rubber Membrane® (no VOCs) to a film build of 40 mils, with unlimited buildup potential in areas that are damaged and or dented, filling in seams and holes in the existing groyne/breakwall steel. The rusted old metal groynes and breakwall's now have a revitalized uniform appearance.

A top coat of a Hybrid Elastomeric

Polyurethane (also an environementally friendly coating with no VOCs) is then applied over the Rubber Membrane. The result is this very unique **Groyne and Breakwall**,

Protection System (see back page for features). it's Strength, durability, flexibility and reduction of friction, help





"Resist Mother Nature's damaging effects for many years to come, at a fraction of replacement cost."

We can help you with your shoreline maintenance problems.

Contact us at

519-332-3672

prevent damage from ice build up, wind, weather and erosion.

We at Global Marine Protection Services Ltd. brought the host coatings manufacturers' products together, to complement each others coatings' strengths, producing an

"Unprecedented Coatings Protection

Package" which in our opinion will revolutionize how coating systems are specified in the future.

One Case history is Sarnia's Canatara

Park, which has several groynes that were
installed in the early 1970s. Over the years,
these groynes have deteriorated due to
general erosion, ice and wave action, leaving
jagged edges and gaping holes that allow the
free flow of water, causing safety and
aesthetic problems.

We, at Global Marine Protection Services,

Ltd. completed a pilot project for the City of Sarnia in January of 2008, refurbishing one of these groynes using our **Groyne and Breakwall Protection System**. Once completed; with protection and aesthetics regained and liabilities diminished, it was determined that the rest of their groynes should be brought into the 21st century, as well.

www.globalmarineprotectionservices.com







Groyne and Breakwall, Protection System

Cantex Coatings, Premier Rubber Membrane®

- 85% Solids
- Non toxic
- No VOCs
- Ease of Installation
- Conforms to odd shapes
- 1250% Elongation
- Unlimited high build, one coat application
- Water and chemical resistant
- "Lloyd's Register", approved

Hybrid Elastomeric Polyurethane Coating

- 100% Solids
- Non toxic
- No VOCs
- 50% Elongation
- High build, one coat application
- Abrasion resistant
- Ceramic type finish with friction reduction added
- Water and chemical resistant
- "Lloyd's Register", approved







Pictures, from "Groyne Restoration Pilot Project" for the City of Sarnia, Canatara Park, January, 2008