

GOLDSEAL GROUP WHARFS

Objective: To clarify the benefits of Specifying Goldseal Industrial Hotspray in Unwashed areas under wharfs, bulk handling facilities and shopping centres built over sea water

Background: Maintaining the undersides of wharfs and bulk unloading facilities is a real maintenance challenge. Scaffolding and encapsulation are one issue followed by substrate preparation and multiple coating in Tandem with Tidal issues and shut down periods. The Goldseal Group has over 30 years experience in this area.

Unique benefits : Experience has shown us

- Goldseal requires less preparation than other Industrial coatings.
- Depending on time/tide constraints there can be a reduced need for scaffolding or encapsulation.
- The single coat process can deliver 350 2000 microns in one time frame.
- Goldseal does not crack or peel under wharfs subjected to conveyor unloading vibration or heavy equipment during its service life.
- The formulation is able to fill gaps or joins in dissimilar materials such as wood, steel and concrete often used in wharf construction or repair.
- Independent inspection report confirms performance in the splash zone of 20 years without maintenance

Case Study: Recreational wharf Western Australia. Bolts have been Goldseal coated and replaced, with Goldseal under the washer. A long reach pipe nozzle can feed Goldseal into the steel flange join to prevent initial blow out corrosion. With only paint sprayed into this area corrosion will restart within days. To blast and paint this area would require the complete disassembly of the wharf deck.

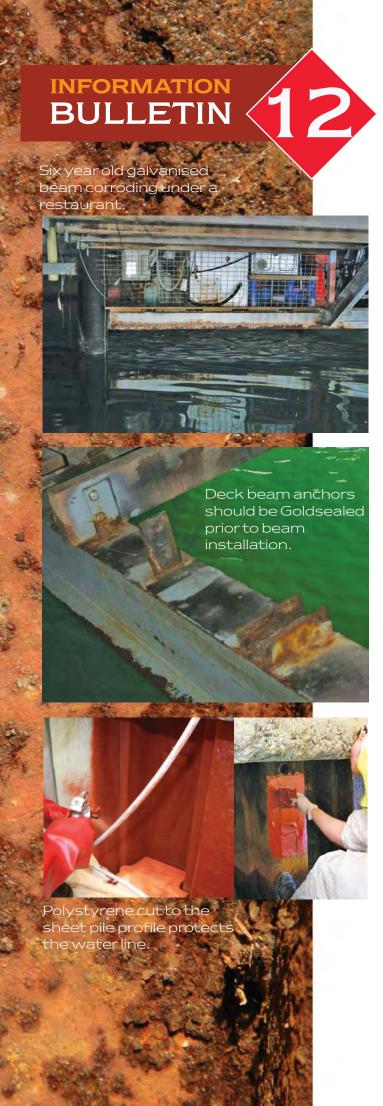


Case Study: Sugar works wharf New Zealand. This wharf was coated in 1993. After 15 years the Goldseal beams under the wharf were in good condition. On the outside beam faces some maintenance was required where the chlorinated rubber previous coat had cracked and peeled back, carrying the Goldseal with it. In 2003 the deck was replaced and hot dip galv deck support beams were installed. By 2009 the galvanizing was sacrificing itself in the unwashed environment, so the whole wharf underside and conveyor unloading system was recoated in Goldseal. A quest Reliability Inspection is available and details the condition of the wharf prior to recoating.

Case Study: Tidal variance in different climatic zones.

In high tidal variance we are often able to scaffold wharf sections and prepare and coat within one tidal cycle as in the sugar works above. In the case below we are in a lower tidal range less than 500mm. In the photograph below our Licensee has prepared the steel, neutralised the rust areas, dried the area and is applying Goldseal Industrial Hotspray. This section can be prepared and coated in one work shift without intercoat contamination.

NB: For photography purposes the shade cloth overspray catchment has been let go. In a preparation phase the shade cloth catches falling material and in a spray phase the Goldseal is a heavy overspray which falls directly onto the shade cloth which is hung under the spray area.



Case Study: Many wharfs are a combination of steel beams holding a concrete or wooden deck tied back to reclaimed processing area supported by sheet piling and a concrete capping.

- 1. Goldseal can be applied to air chiselled sheet piling without sandblasting.
- 2. Goldseal will fill and seal the join between sheet piling and the concrete capping
- 3. Goldseal will fill and seal the gap where steel beams enter a concrete support
- 4. Goldseal will cost effectively coat steel wharf beams without sand blasting for 15-20 years
- 5. Goldseal can be inspected and simply touched up with a Brush grade cold repair by hand if required
- 6. Goldseal can be applied directly to spalling concrete and exposed rebar with little preparation. An independent report is available detailing a 20 year plus service and the halting of the spalling process
- 7. In a worst case scenario involving a spill or pressure pipe fracture, Goldseal will float. The product can be controlled by floating noodles, collected in nets or if washed ashore can be collected, heated and recycled to commercial grade.

Case Study: Cold Goldseal may be knifed into localised holes in concrete, sheet piling and hardwood beams that have localised damage or cracks allowing water ingress. Of the thousands of maintenance coatings available there are few that are designed for chemical buildup without regular washing. To have a high build barrier coat that remains flexible and can be applied to a variety of dissimilar substrates is extremely useful and cost effective. Stripping and coating these older assets in a variety of dry film coating is often cost prohibitive and yields poor value for service life.

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