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GOLDSEAL GROUP

GALVANIZING PLANTS

***Objective:* To case study the Performance of Goldseal Industrial Hot spray in a highly corrosive environment.**

Background: Galvanizing plants use a variety of cleaning and pretreatment baths to prepare steel and a hot molten galvanizing bath which gives off clouds of acidic steam upon dipping. Goldseal has over 30 years experience in this environment in New Zealand and Australia and is recognized as one of the few appropriate coatings for this environment.

- Cladding should not be prepainted steel. Must be prepainted stainless or Fiberglass siding.
- Purlins should be timber or Goldsealed z or c purlins.
- Fixings should be stainless steel.
- Portals can be steel or Galvanized but should be Goldseal coated.

Case Study: Galvanizing Plant Western Australia. The rusty cladding is 12 month old prepainted zincalume. The small red topped sheets is an example of rusting cladding that was Goldsealed 5 years earlier. The steel purlins were Goldsealed at the same time. From the time we were asked to quote on the new cladding rust, it had rusted through before we had time to arrange a shut down window.

Case Study: Queensland Australia. A good example of the right products used to give long service life in this environment

Industry wide acceptance: Goldseal is not a mainstream maintenance paint. It has been specifically formulated and fine tuned directly with industrial plant owners where very aggressive chemical environments produce fume and fluids that get under a coating and blow it out at weak points.

- Goldseal is applied to unsandblasted rusty steel. It actually soaks into the steel structure , so fumes and fluids will not get between the coating and the steel.

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- It can be applied up to several thousand microns in one application without loss of adhesion.

- The Goldseal CSI technology is formulated as a compound which delivers a high solids coating by hot spray, that will stay flexible throughout its service life.

- Recoating only requires a low pressure wash, minor corrosion rectification and fast cost effective recoating.

- Short shut down and 24/7 processes benefit fro CSI technology which reduces shut down times and lost production.

Case Study : Galvanizing plant New South Wales Australia. Portals and steel purlins can be coated in a cost effective and time effective manner. Galvanizing plants are not large and much can be achieved in a long weekend shutdown. Goldseal is a very effective rescue coating on C or Z purlins. During the coating process if any purlins are found to be beyond rescue they are left uncoated. These individual purlins can then be replaced or sleeved without the need for roof removal. Production is maintained.

Case Study : Galv Plant Hexam Australia. The plant manager here had experienced Galvanizing and fitting their own structural components .In the processing area the new Galvanizing was sacrificing itself after 3 years. Any new components from then on were galvanized and coated new with Goldseal Hotspray. The trial ran for 12 years and the Goldseal was then recoated with only a wash down to the uncorroded surface.

All structural steel components are Goldsealed including Crane rails.

While wooden purlins deliver an acceptable service life in an acid environment , there can be erosion of the wood fiber , with time.

We recommend complete encapsulation with Goldseal at this stage in life.

Goldseal CSI Technology will penetrate the surface and protect, in much the same way as steel and also seal the flange / bolt area.

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