

## Protective Coatings for Pit Levelers

1. **Hot Dip Galvanized** – a process of applying a zinc coating to fabricated iron or steel material by immersing the material in a bath consisting primarily of molten zinc between 815° to 850° F. During the galvanizing process the molten zinc reacts with the iron in the steel to form a series of zinc/iron alloy layers. After removal from bath, excess zinc is removed by draining. Then air-cooled or quenched in liquid. The largest disadvantage is the risk of heat distortion or possible weld damage. Approximate 32 to 35 years protection in urban/temperate coastal and 50 years in rural per AGA website. We recommend using this **ONLY** on hydraulic levelers at 45,000 lbs CIR and above due to heat distortion potential. The mechanical leveler parts tend to stick and become difficult to operate.
2. **Zinc Spray Metalizing** – Zinc Metalizing is a versatile process which melts zinc or zinc alloy metals, and then rapidly propels the molten zinc particles onto a prepared substrate, creating a lamellar or layered coating. Metalizing, or Thermal Spraying as it is often called, is a highly effective and proven method of corrosion prevention, giving galvanic as well as barrier coating protection to iron and steel. With temperatures involved at about 250° to 300° there is virtually no risk of heat distortion or possible weld damage. Approximate 15 to 25 years protection in urban/temperate coastal areas and 30 years in rural per Platt Bros. & Co. website. We recommend using this process on **ANY** hydraulic or mechanical pit leveler. This less expensive alternative to Hot Dip Galvanizing is also paintable.