



regalvanized, unless otherwise agreed between the purchaser and the galvanizer.

Zinc Metal Thermal Sprayed Coatings

Method

The damaged area is to be lightly blasted using preferably a pencil blasting nozzle or the surrounding coating should be masked in order to limit damage.

A zinc metal sprayed coating is then applied to the abrasively blasted surface to a thickness at least 30µm greater than the minimum specified zinc coating thickness, or equal to the surrounding coating thickness, whichever is the greater. The repaired area is then wire brushed (preferably stainless steel) to remove loosely adhering over sprayed zinc. Wire brushing provides the added benefit of sealing the pores that may be present in the sprayed coating.

Zinc Rich Epoxy or Zinc Rich Paint

Method

The defective area shall be blasted as above or abraded with abrasive paper (roughness 80 grit). All dust and debris must be completely removed. In the event of moisture being present, all surfaces are to be properly dried.

A zinc rich paint or epoxy containing not less than 80% of zinc in the dry film (53% by volume), should be applied to a thickness, 30µm greater than the minimum specified for the galvanized coating or equal to that of the surrounding galvanized coating, whichever is greater. The paint coating should overlap the surrounding zinc by at least 25mm.

The preferred product is a two or three component zinc rich epoxy.

SITE REPAIRS

The preferred method of repair is by zinc metal thermal spraying. Due to the remoteness of most sites, however, and the unavailability of metal spraying equipment, repairs by zinc rich epoxy or zinc rich paint have to date generally been more popular.

Site repairs should be limited to small coating defects and areas that have been cut or welded on site.

Should excessive amounts of grease or oil be present at the affected area, it should be removed by means of an approved solvent. All residues are to be thoroughly removed by washing with clean water.

The affected area should then be abraded with abrasive paper (roughness 80 grit) or alternatively thoroughly cleaned using, preferably a stainless steel brush. All dust and debris should be completely removed.

Repair can now be carried out using an approved product.

Single pack zinc rich paints are good materials and can easily be applied. They, however, require several coats to achieve a reasonable repair. Multiple coats will also necessitate longer drying times between coats.

Site Repairs by “Zincfix”

Until recently, the approved products for repair were only available in large containers. Due to the large quantities involved and short pot life when mixed, the products proved to be expensive and wasteful.

A product is now available in a three component, solvent free form, packed for convenience in handy, easy to use squish packs. The repair product is called “Zincfix” and is approved by and available from

the Hot Dip Galvanizers Association of Southern Africa and all of its members.

The product has been tested against a number of reputable products and has performed exceptionally well.

Zincfix is available in a 100g squish pack and will coat an area of about 0,25m² to a DFT (Dry film thickness) of 100 to 150µm in a single application.

The contents are easily mixed in accurate proportions.