



# DRI-GARD ZN-90

## Zinc-rich epoxy primer for metal substrates

2-component reactive polyamide-cured epoxy-based organic zinc-rich primer coating. It is most ideal for use as a primer to be applied directly to steel surfaces or as an intermediate coat in high performance coating systems suitable for industrial steelworks and marine fabrications.

### FEATURES/BENEFITS

- High level of corrosion resistance
- Zinc-rich primer offers galvanic protection properties
- Good abrasion resistance to minimize mechanical damage
- High film build capability
- Continuous heat resistance up to 150°C
- Compatible with various paint/coating systems
- Fast dry with minimal dry spray

### APPLICATION AREAS

- Steelworks
- Marine fabrications
- Bridges
- Petrochemical & offshore facilities
- Port machineries
- Etc.

### PRODUCT DATA

<b>Packing</b>	5L, 20L
<b>Appearances / Colors</b>	Grey (Semi-Gloss)
<b>Volume Solids</b>	Approx. 65%
<b>Zinc-Rich Content</b>	>90%
<b>Storage</b>	Up to 6 months from date of production
<b>Storage Condition</b>	Store properly in original, unopened and undamaged sealed packaging in cool and dry conditions. Protect from direct sunlight and excessive moisture.
<b>Specific Gravity</b>	Approx. 2.2 kg/L (mixed) at 25°C
<b>Mixing Ratio</b>	80 parts BASE: 20 parts HARDENER by volume
<b>Application Methods</b>	By brush, roller or spray
<b>Thinner/Cleaning</b>	Epoxy Thinner (Thinning is not usually required. If necessary, thin no more than 10% by volume with Epoxy Thinner for better workability.)
<b>Typical Thickness</b>	77 – 125 microns per coat (WFT) 50 – 80 microns per coat (DFT)
<b>Theoretical Coverage</b>	8.7 m <sup>2</sup> per L at 75 microns DFT
<b>Pot Life</b>	6 hours (at 25 °C)

Drying Time (at 25 °C)	Touch Dry: 30 minutes Hard Dry: 4 hours
Recoating Interval	Min. 4 hours

## SURFACE PREPARATION

- All surfaces must be structurally sound, clean, free from dust, dirt, oil, and any other contaminants that may affect the bonding of the product to the substrate.
- For maximum performance, all surfaces to be overcoated must be clean, dry and free from contaminants. Fresh water wash and degrease according to SSPC – SP1 solvent cleaning.
- Abrasive blast cleaning to minimum of Sa ½, near white metal. Dri-Gard ZN 90 should be applied before reoxidation occurs. If oxidation has occurred between the blasting & application of the product, the surface should be re-blasted to the specified visual standard. Surface defects revealed by blast cleaning should be ground, filled or treated appropriately.
- Hand and power tool cleaning to a minimum of St 2 or St 3.
- All weld spatter, smooth weld seams, sharp edges and scales must be removed. If it cannot be adequately cleaned, then it should be grit blasted.
- May be applied over existing primers provided they are intact. For aged zinc primers, sweep blast is recommended before application.
- If shop primer shows extensive breakdown or corrosion, overall sweep blasting will be necessary.

## APPLICATION

- Dri-Gard ZN 90 must be painted on surface that is dry and free from all contamination and applied within the overcoating intervals specified.
- Application may be done by brush, roller or spray.
- Care must be taken to achieve specified dry film thickness.

## LIMITATIONS

- Avoid paint application when temperature is below 10 °C and relative humidity is over 85%.
- The temperature of steel surface must be min. 3°C above the dew point of surrounding air.

- This product is intended for use of professional applicators. Refer to the safety data sheet (SDS) before using the product.
- Use suitable gloves, goggles, face mask or barrier cream to avoid any skin and eye contact.
- Use this product in well-ventilated areas, avoid skin contact. Spillage on skin should be immediately removed with suitable cleanser, soap and water.
- Eye should be well flushed with water and seek for medical attention immediately upon contact with the product.
- Product is flammable. During the application, naked flame, welding operation, smoking and any other activities with sparks/open flames is not allowed.

## HEALTH & SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

## LEGAL NOTE

The information, and, in particular, the recommendations relating to the application and end-use of these products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance to the manufacturer recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. The manufacturer reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned – copies of which will be supplied on request.