



## RE: PAINT SPECIFICATION

1. Topic: Galvanized Steel Coating System
2. Location: Towers

### 3. Description

**Techno Primer** is a high-performance, superior quality water based primer formulated to promote adhesion and prevent rust formation when used on galvanised steel for interior and exterior use. It contains fungicides to eliminate fungal growth.

**Techno Topcoat** is a high-performance, non-drip superior quality pure acrylic emulsion formulated to provide a long lasting, extremely durable finish which is stain resistant. It contains fungicides to eliminate fungal growth

### 4. Uses

A paint system for galvanised surfaces, structural steel, cromadek and pipes where a corrosion protection and decorative paint system is required for prepared new and weather but sound galvanised surfaces.

### 5. Advantages

- Excellent coverage
- Aesthetically pleasing
- Thixotropic gel
- Waterbased and environmental friendly
- Non-yellowing
- Mar and scratch resistant
- Good adhesion
- Excellent U.V. and corrosion resistance
- Low odour

### 6. Preparation

New galvanised surface to be pre-treated with Galv Prep  
Apply the Galv Prep undiluted with a brush application.  
Allow for 10 minutes to re-act with the galvanised surface.  
Rinse with clean water.  
Allow to dry.

Note – Wear rubber gloves when using Galv Prep

#### Properties

Colour: White & Orange

**Finish** - Satin Sheen.

#### **Spreading Rate**

Techno Primer 8m<sup>2</sup> per litre  
Techno Topcoat 8m<sup>2</sup> per litre

#### **Recoating time at 23°C Minimum**

Techno Primer 24 hours  
Techno Topcoat 24 hours

#### **Number of coats**

1x Techno Primer  
2x Techno Topcoat

#### **Dry film thickness**

Techno Primer 35µm microns @  
8m<sup>2</sup> per liter  
Techno Topcoat 35µm microns @  
8m<sup>2</sup> per liter

#### **Thinning – DO NOT THIN**

#### **Temperature conditions for application:**

- Temperature between 10°C and 40°C.
- Relative humidity of less than 85 %.

#### SABS Tests

##### **SANS 6259**

Application properties: Complies

##### **ASTM G154**

Artificial weathering: Complies

##### **SANS 2409**

Adhesion c/c: Complies  
Impact.j: Complies

##### **SANS 7253**

Salt spray: Complies



## 7. Application

Application procedure to apply the Techno protective coating paint system on galvanised steel.

### 7.1 Primer coat – Techno Primer

- 7.1.1 Stir paint well for at least 3 minutes with a flat paddle. Apply by brush, mohair roller or airless spray one coat of **Techno primer** at 8m<sup>2</sup> per litre ( 100µm wet film thickness and 35µm microns dry film thickness)
- 7.1.2 Priming of the surface should only commence once the surface temperature is above 8°C with a relative humidity of below 85% and if the weather permits painting.
- 7.1.3 Over-coating time of the **Techno Primer** is 24 hours.
- 7.1.4 A measle corrosion test need to be done on weathered rusted galvanised sheeting to determine if a 2<sup>nd</sup> coat of **Techno Primer** is required to cover to rust peaks.

### 7.2 Topcoat – Techno Topcoat

- 7.2.1 Stir the **Techno Topcoat** well with a flat paddle for at least 3 minutes.
- 7.2.2 If the weather permits and the surface temperature are above 8°C with less than 85% relative humidity, apply by brush, mohair roller or airless spray 2 coats of **Techno Topcoat** at 8m<sup>2</sup> per litre. (100µm wet film thickness and 35µm microns dry film thickness).
- 7.2.3 First coat of **Techno Topcoat** need to dry for 24 hours before the 2<sup>nd</sup> coat of **Techno Topcoat** can be applied.

### 7.3 Preparation

- 7.3.1 Use P60 sandpaper or any other mechanical abrading to remove the rust to a bright rust free galvanised surface
- 7.3.2 Wear rubber gloves and apply the Galv Prep
- 7.3.3 Allow the Galv Prep to react with galvanised surface for 10 minutes.
- 7.3.4 Rinse with clean water.
- 7.3.5 Allow to dry before priming.

**Preparation for lightly rusted galvanised surfaces**

Step 7.3.1 – 7.3.5