

Guardian Seal Zinc Primer
Technical Data Sheet
Version 1.0

1. Product Description

Guardian Seal Zinc Primer is a **water-based acrylic primer formulated with zinc corrosion-inhibiting pigments** designed for use on prepared roofing substrates. The coating provides a protective priming layer that improves adhesion of subsequent roof coatings while helping to inhibit corrosion on metal roof surfaces.

The primer penetrates and bonds to properly prepared substrates, creating a stable base coat that enhances the durability and performance of roof coating systems.

2. Recommended Use

- Prepared metal roof surfaces
 - Weathered galvanised steel roofing
 - Roof restoration and recoating systems
 - Priming layer before application of acrylic roof coatings
 - Prepared exterior roofing substrates requiring corrosion protection
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3. Key Features and Benefits

- Zinc-based corrosion inhibiting primer
 - Improves adhesion of roof coating systems
 - Water-based acrylic formulation
 - Provides protective base coat for metal roofing
 - Compatible with acrylic roof coatings
 - Suitable for exterior roof restoration systems
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4. Safety and Handling

Read all container labels before use and follow **standard safety procedures**.

Refer to the **Safety Data Sheet (SDS)** for detailed information regarding:

- Personal protective equipment
- Ventilation requirements
- Spill response procedures
- Safe handling and disposal

Avoid contact with **eyes and skin** and prevent release into **drains or waterways**.

5. Product Information

Resin Type: Acrylic polymer dispersion
Corrosion Inhibitors: Zinc compounds and phosphate pigments
Solvent: Water
Appearance: Coloured acrylic dispersion
Odor: Mild acrylic / polymer odor
pH: 8 – 10
Relative Density: 1.30 – 1.50
Viscosity: 1500 – 2000 cSt
Flash Point: >100 °C (water based)
Boiling Point: ~100 °C
Solubility: Miscible when wet, insoluble when dry
VOC Content: <60 g/L

6. Surface Preparation

All surfaces must be **clean, dry, and properly prepared** prior to application.

Recommended preparation includes:

- Remove **loose coatings, rust, and debris**
- Remove **oil, grease, dirt, and contaminants**
- Pressure wash surfaces where necessary
- Remove **oxidised or loose metal scale**
- Allow surfaces to **dry completely before priming**

Proper preparation ensures **maximum adhesion and corrosion protection**.

7. Application Details

Guardian Seal Zinc Primer may be applied by:

- **Airless spray**
- **Brush**
- **Roller**

Apply evenly to achieve a **continuous priming layer** across the substrate.

Ensure complete coverage of **bare metal areas** and prepared roofing surfaces.

8. Application Conditions

- Apply only to **clean and dry substrates**
 - Do not apply to **wet, frozen, or excessively hot surfaces**
 - Avoid application when **rain is expected during drying**
 - Ensure **adequate ventilation when spraying**
 - Protect surrounding areas from **overspray**
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9. Drying and Recoating

Drying time will vary depending on **temperature, humidity, and film thickness**.

Typical drying behaviour

Touch Dry: Approximately **1–2 hours at 20 °C**

Recoating: After the primer film has dried sufficiently

Environmental conditions may **affect drying performance**.

10. Performance Summary

Advantages

- **Corrosion-inhibiting zinc primer**
- **Improves adhesion of roof coating systems**
- **Enhances durability of metal roof coatings**
- **Suitable for roof restoration systems**

Limitations

- **For exterior use only**
 - Do not apply to **contaminated or poorly prepared substrates**
 - Do not apply during **rain or freezing conditions**
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11. Storage and Shelf Life

Store in the **original sealed container** in a **cool, dry, well-ventilated area**.

Storage conditions

- **Temperature range:** 5 °C – 35 °C
- **Protect from freezing**
- Keep containers **tightly closed when not in use**

Shelf life: 24 months when stored correctly

12. Environmental Information

- **Very toxic to aquatic life with long lasting effects**
 - Prevent release into **drains, waterways, or soil**
 - Dispose of product and containers in accordance with **local regulations**
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13. Disclaimer

The information provided in this **Technical Data Sheet** is based on current technical knowledge and experience. It is offered as guidance only and does not constitute a guarantee of product performance in all situations. Users must determine suitability for their **specific application conditions**.

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