CCM Zinc Prime – Technical Data Sheet

Description

CCM Acrylic Zinc Prime is a high-performance, water-based anti-corrosive primer designed for use on ferrous and non-ferrous metals, including mild steel, galvanised steel, zinc-aluminium coated substrates, and pre-coated roofing materials.
Formulated with an **acrylic resin system** and **anti-corrosive pigments**, it provides excellent adhesion, early barrier protection, and enhanced durability for subsequent coating systems.
Suitable for both interior and exterior environments and ideal for use under acrylic, elastomeric, and waterproofing topcoats.

Physical Properties

Resin Type: 100% Acrylic Emulsion
Solvent: Water
Colour: Grey
Finish: Low Sheen
Density: ~1.3 - 1.5 g/mL
Drying Time: 1 hour @ 18°C
Recoat Time: 2 hours @ 18°C
Dry Film Thickness: 50–80 µm per coat
Number of Coats: 1–2
Theoretical Coverage: 6–7 m²/L @ 50 µm DFT
Thinning & Cleaning:

- Not recommended for thinning
- Clean equipment with warm soapy water

Performance

- Excellent adhesion to a wide range of metal substrates
- Very fast drying and recoat intervals to minimise downtime
- Formulated with special anti-corrosive pigments for long-lasting protection
- Provides ideal surface for acrylic and elastomeric topcoats
- Good early water resistance once cured
- Outstanding hold-out for subsequent finishes
- Low-odour, low-VOC, and easy to apply

Limitations

- Do not apply when air or surface temperature is below 10°C or expected to fall below this
- Not suitable for immersion service or constant water exposure
- Will not prevent corrosion on heavily rusted or pitted steel without prior mechanical preparation
- Do not apply over unsound, chalking, or powdery surfaces without surface conditioning
- Not recommended as a finish coat

Substrate Preparation

General:
All surfaces must be clean, dry, sound, and free of grease, oil, dust, salts, and contaminants.

Galvanised / Zinc-Aluminium / Zinc-Plated Steel:

- Remove all oxidation, white rust, and mill residues
- Wash with detergent, rinse thoroughly
- Lightly abrade for improved adhesion where possible

Mild Steel:

- Remove rust, mill scale, and loose contamination
- Wire-brush, grind, or mechanically abrade to ST2–ST3
- For heavy corrosion, sandblasting to SA2.5 is recommended
- Remove dust before coating

Previously Painted Surfaces:

- Remove loose or flaking paint
- Sand glossy surfaces to a dull finish
- Test patch recommended if coating type is unknown

Mould / Organic Contamination:

- Treat with CCM contractor roof wash/House wash, or equivalent product
- Waterblast mouldy surface before painting

Application

Methods: Brush, roller, conventional spray, airless spray
Thinning:

- Brush/Roller: Not required
- Spray: Up to 5% water if needed

Recommended System:

- Apply 1–2 full coats to achieve 40–60 µm DFT
- Ensure full cure before applying finish coats

Drying Conditions:

- Ideal ambient temperature: 10–30°C
- Avoid application in high humidity (>85%) or when rain is expected

Coating System Recommendations

For exterior metal roofing:

1. 1–2 coats CCM Acrylic Zinc Prime
2. Followed by topcoat

For exposed mild steel:

1. 1 coat Acrylic Zinc Prime
2. Follow with 2 topcoats

For galvanised steel:

1. 1 coat Acrylic Zinc Prime
2. 1–2 finish coats as specified

Theoretical Coverage

6–7 m²/L to achieve 50 µm DFT.
Surface profile, porosity, and substrate roughness will affect coverage.

Thinning and Cleaning

Thinning:

- Water only, minimal amount required
- Do not over-thin as this reduces film build and protection

Cleaning:

- Clean all tools and equipment immediately after use with warm soapy water

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Storage

- Store between **5°C and 35°C**
- Protect from frost, heat, and direct sunlight
- Keep container tightly closed when not in use
- Use within 24 months of manufacture for best results

Safety

Refer to the Safety Data Sheet for full safety guidance.

Key points:

- Avoid contact with skin and eyes
- Use in well-ventilated areas
- Wear gloves, safety glasses, and protective clothing
- Harmful to aquatic environments—prevent release into drains or watercourses

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Disclaimer

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