



ZINC PHOSPHATE PRIMER

Technical Application Guide

Polybond Zinc Phosphate Primer is a resin-based air-drying primer. It adheres well and protects correctly prepared steel before overcoating. It is a hard-wearing, economical primer that remains usable after the container has been opened, and is suitable for airless or conventional spray according to the size of the area.

KEY BENEFITS

- Air-drying zinc phosphate primer for prepared steel
- Hard-wearing and economical — remains usable after opening
- Suitable for conventional, airless and electrostatic spray
- Standard colours: white, black, grey, red, buff and yellow
- Touch dry in 30–45 minutes at 25°C

Recommended Use

General-purpose primer for correctly prepared steel before overcoating • Workshop and site spraying of fabricated steel • Economical holding primer where the pot must remain usable after opening

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Specialist Coatings • Custom Made Colour Powder Coatings & Wet Paints

Application

Surfaces must be dry and clean, with no remaining grease. Degrease with Universal Thinners; vapour degreasing gives maximum efficiency.

Apply by conventional or airless spray. The product can be adjusted for electrostatic spray. For conventional spray, thin to a viscosity of 30–50 seconds at ambient temperature, or approximately 10% by volume.

Important – Flammable liquid

Flash point 22–32°C. Store in a cool, dry place at 10–15°C in accordance with highly flammable liquids regulations. Keep away from sources of ignition and use with vapour extraction.

Surface Preparation & Priming

Degrease thoroughly. Suggested related primers in the Polybond range: Mild steel — Two Pack Self Etching Primer, Red Oxide Primer or Zinc Rich Primer. Aluminium — Two Pack Self Etching Primer. Stainless steel and Zintec — Single Pack Etch Primer.

Application Methods

Method	Guidance
Conventional Spray	Thin to 30–50 seconds viscosity at ambient temperature, or about 10% by volume with Universal Thinners.
Airless Spray	Suitable for larger areas. Build the specified dry film thickness in an even wet coat.
Electrostatic Spray	Can be adjusted for electrostatic equipment.

Overcoating / Recoat Times

Touch dry: 30–45 minutes at 25°C. Hard dry: 12 hours. Full cure: 7 days, all at 25°C.

Overcoat when hard dry, or as specified for the finishing system.

Technical Properties

Property		Property	
Colour	White, black, grey, red, buff and yellow as standard	Finish	Primer
Coverage	5–8 m ² /l at 45 µm; 4–6 m ² /l at 55 µm (spray)	Volume solids	Typically 58–65%, dependent on viscosity
Packaging	1, 2.5, 5 and 25 litres	Flash point	22–32°C
Touch dry	30–45 min at 25°C	Hard dry	12 hours at 25°C
Full cure	7 days at 25°C	Shelf life	1 year in the original sealed container
Cleaning	Universal Thinners	Storage	Cool, dry, 10–15°C. Keep containers tightly closed.

Health, Safety & Environmental Information

Zinc Phosphate Primer may be harmful in contact with skin or eyes, or if inhaled. Avoid skin contact and observe industrial hygiene. Provide vapour extraction and fire precautions. Inform personnel of handling requirements, especially for indoor use.

- Wear suitable protective gloves, eye/face protection and barrier cream.
- Do not breathe vapours or spray mist.
- Keep away from sources of ignition. Flash point 22–32°C.
- Always refer to the current Safety Data Sheet (SDS) before use.

TECHNICAL SUPPORT & FURTHER INFORMATION

For technical advice, product recommendations, colour matching or Safety Data Sheets, please contact our Technical Department.

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This guide supersedes all previous versions. Information is given in good faith but without warranty. Users should satisfy themselves as to the suitability of the product for their intended application. Always follow current best practice, relevant standards and local regulations.