

**TECHNICAL DATA SHEET****DIRECT TO METAL SMOOTH****GENERAL DESCRIPTION:**

Fired Earth Direct to Metal is a premium quality primer, undercoat, anti-rust coating and topcoat in one, for ferrous and non-ferrous metals. Widely used on galvanised steel, mild steel, wrought iron, stainless steel, aluminium and certain plastics.

USES:

INTERIOR / EXTERIOR

Fired Earth Direct to Metal can be applied directly to galvanized iron, mild steel, wrought iron, stainless steel and aluminium surfaces on items such as gas cylinders, pumps, motors, plant machinery, structural steel, gates, railing, garden furniture or other metal items in your home. Can also be used as a premium topcoat over zinc phosphate primers.

FEATURES & BENEFITS:

- Superior satin-gloss finish
- Fast drying
- Anti-rust coating for new or rusted metal
- Lead content, less than 90 ppm
- No chalking or fading
- UV and all weather resistant
- Excellent adhesion
- Excellent flow and levelling
- Abrasion and scratch resistant
- Protection and decoration

TECHNICAL INFORMATION**1. DIRECT TO METAL**

PHYSICAL FORM	Flammable viscous coloured liquid containing pigment
COLOUR	Grey, Copper, Bronze, Charcoal, Black, White
FINISH	Smooth Glossy finish
TYPICAL SPREADING RATE	5-6m ² /L
MASS SOLID	36±3%
VOLUME SOLID	28±3%
POLYMER TYPE	Modified Alkyd
RECOMMENDED DFT	50-60µ per coat
RECOMMENDED WFT	175-215µ per coat
VISCOSITY at 23 °C	65-75KU
S G at 23 °C	0.920±0.05 Kg/L
FILLERS & PIGMENTS	Aluminium paste and colourants
THINNING	If required to reduce viscosity add minimum amount of E thinners (NB: Do not use water or mineral turpentine)
MIXING	Stir well before use and after addition of thinners
FLASH POINT	42°C (Abel closed cup method)
PACKAGING	500ml & 1ℓ
THINNING	Ready for use



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CLEANING	Use E thinners
APPLICATION METHOD	Apply this product with a quality paint brush or airless spray

DO NOT PAINT	
IF THE TEMPERATURE IS BELOW 10°C OR ABOVE 35°C	
IF THE SURFACE IS DAMP (MOISTURE READING ABOVE 15%)	
IF IT IS RAINING OR RAIN IS FORECAST	
BEFORE 9H00 AND AFTER 16H00 IN THE WINTER	

SURFACES

Ensure surfaces are, in sound condition, clean and free from any contaminants such as dust, dirt, rust, salt, algae and grease.

New / rusted metal & galvanised steel	Lightly abrade and remove any surface rust or mill scale by sanding, wire brushing, with a chipping hammer, a needle gun, grinder or sandblasting (sandblast to SA2½ to a 40 to 50 profile). Dust off and rinse with clean water. Clean and degrease with Fired Earth Galvprep & Clean, rinse thoroughly with water until a water break-free surface is attained, allow to dry, then apply 2 coats of Fired Earth Direct to Metal.
New metal or galvanised iron	As necessary, lightly abrade to remove any stubborn surface contaminants whilst cleaning with Fired Earth Galvprep & Clean. Rinse thoroughly with water until a water break-free surface is attained, allow to dry. Apply 2 coats of Fired Earth Direct to Metal.
Shiny smooth metal surfaces	Abrade surface lightly and remove any surface contaminants by sanding or abrasive pad. Dust off and rinse with clean water. Clean and degrease with Fired Earth Galvprep & Clean, rinse thoroughly with water until a water break-free surface is attained, allow to dry, then apply 2 coats of Fired Earth Direct to Metal.

SURFACES

Previously painted metal surfaces	Abrade the painted surface to a matt finish removing all loose material and surface contaminants. Clean and degrease thoroughly with Fired Earth Galvprep & Clean. Apply one coat water based Fired Earth Galvprep & Clean, followed by apply 2 coats of Fired Earth Direct to Metal.
Non-ferrous metal surfaces (Aluminum, copper, brass and zinc)	Ensure these surfaces are thoroughly cleaned using Fired Earth Galvprep & Clean, repeat if necessary, especially in industrial and coastal areas, to ensure maximum adhesion on aluminium and non-ferrous metal surfaces.
Plastic (firm PVC), down pipes and gutters.	Abrade surface lightly remove surface contaminants with a fine sandpaper or a non-metallic abrasive pad. Dust off, rinse and clean with Fired Earth Galvprep & Clean. Rinse thoroughly with water until a water break-free surface is attained, allow to dry. Apply two coats Fired Earth Direct to Metal.



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IMPORTANT

Extremely rough or pitted ferrous metals and traces of remaining rust after preparation, apply 1 coat of Fired Earth Rust Converter, then apply 2 coats of Fired Earth Direct to Metal. Ensure edges and corners are adequately covered to avoid premature rusting. Fired Earth Direct to Metal contains silicones. For further technical information refer to the product data sheet on www.fired-earth.co.za. Do not apply to hot substrates.

HEALTH & SAFETY ADVICE

The product contains a flammable solvent. Precaution must be taken to prevent naked flames encountering vapours (i.e., smoking must be prohibited). Solvents may also cause narcotic effects if the vapour concentration is too high: always ensure adequate ventilation (do not use solvent-based paints in a poorly ventilated or closed space). Avoid contact with skin, eyes, mouth etc. Wear protective clothing, goggles & gloves. If body contact is made, rinse off immediately. Wash product off skin before it has dried using soap and water.

DISCLAIMER ADVICE

The information given in this Product Information Sheet is based on controlled laboratory tests and many years of experience. It is given in good faith, but no guarantee of any performance characteristic is given or implied. Promac Paints cannot be held liable for consequential damage of whatsoever nature that may arise from the use of Promac products. Paint technology is continuously being developed and Promac Paints reserves the right to update product specifications without prior notice. Contact Promac Paints for further details.