TECHNICAL DATA SHEET

ZINC PHOSPHATE PRIMER (ZPP) DI040

PRODUCT CODE:

ZPP Primer Black	: ZPPBlack (01) (05) (20) (200)
ZPP Primer Grey	: ZCPGrey (01) (05) (20) (200)
ZPP Primer Red Oxide	: ZCPRed (01) (05) (20) (200)

PRODUCT DESCRIPTION:

Zinc Phosphate Primer is a solvent-based, fast-drying primer for application to prepared steel. ***Zinc Phosphate Primer*** is a cost effective metal primer designed for spray and brushing application to general steelwork where a tough, fast drying primer coat is required. For our alternative water-based H_2ydrO / Aqua (Eggshell & Super Gloss) range of products visit www.durapaints.co.za.

INTENDED USES:

A cost effective steel primer for prepared steel surfaces***. Zinc Phosphate Primer*** is primarily used to protect mild steel surfaces against rust.

FEATURES:

Zinc Phosphate Primer is a quick drying metal primer with good corrosion resistance characteristics, excellent adhesion, good build and covering properties. Coverage/spreading rate of ***Zinc Phosphate Primer*** depends largely on the condition of the substrate being painted and the manner in which the product is applied.

PRODUCT INFORMATION:

- APPEARANCE — Matt finish.
- COLOUR — Black, Grey and Red Oxide.
- VOLUME SOLIDS — 30% (varies by colour)
- MASS SOLIDS: — 46%
- S G @ 25°C — 1.1 (varies by colour)
- RECOMMENDED DFT — Min: 30 µm / Max: 35 µm (per coat)
- VISCOSITY @ 25°C — 60 - 70 KU (depending on colour)
- THEORECTICAL SPREADING RATE — 10M² / LT@ 35µm DFT, varies depending on colour.

APPLICATION DETAILS:

- MIXING — Stir thoroughly with a flat paddle until homogenous.
- SUBSTRATE — Mild steel surfaces.
- METHOD — Conventional / airless spraying equipment or brushing.
- CLEANING — Dura QD thinners.
- THINNING RATIO — Up to 10% with Dura Paints QD Thinners depending on the application equipment.
- APPLICATION ENVIRONMENT

Surface Temp	Ambient Temp	Relative Humidity
Min 10°C or 2°C above dew point	Min 10°C or 2°C above dew point	Min: 10%
Max.: 40°C	Max.: 40°C	Max.: 85%

- Do not apply when ambient temperature is below 10 ºC or during inclement weather.
- DRYING TIME

Surface dry:	15 minutes @ 25ºC
Surface dry:	2 Hours @ 25ºC
Hard dry	4 Hours @ 25°C

SURFACE PREPARATION:

- The mild steel surface must be clean, dry and free from rust, dirt, dust, oil, grease and any other contamination before painting.
- Application of ***Zinc Phosphate Prime***r to galvanized iron, aluminium and stainless steel is not recommended. For the priming of galvanized iron, aluminium or stainless steel**, Etch Primer** is recommended.

Unpainted Steel:

- Preferably sand blast the substrate. Alternatively, remove rust by sanding or wire brush.
- Degrease with ***Hydro Clean*** or ***ProLong Grease Devil.*** Rinse thoroughly with fresh water and allow to dry. Alternatively use Dura Lacquer Thinners.
- Prime the prepared steel with one or two coats of ***Zinc Phosphate Primer***, depending on the required DFT.
- Overcoat with one or two coats of ***QD Enamel*** or ***Autocote***, depending on the colour, required DFT and finish.

ZINC PHOSPHATE PRIMER (contd.)

Previously painted steel surfaces in good condition:

- Remove loose and flaking paint down to a sound substrate and a firm edge by scraping and lightly sanding existing paint to ensure good adhesion.
- Spot prime bare areas with ***Zinc Phosphate Primer.***

Previously painted steel surfaces in poor condition (e.g. extensive peeling):

- Completely remove paint by most appropriate means e.g. scraping, coarse sanding, or sandblasting.
- Degrease with ***Hydro Clean*** or ***ProLong Grease Devil***. Rinse thoroughly with fresh water and allow to dry.
- Prime the prepared steel with one or two coats of ***Zinc Phosphate Primer***, depending on the required DFT.

APPLICATION:

- Conventional spray, airless spray or brush is recommended.
- Thinning is not recommended, however a thinning ratio of up to 10% with Dura QD thinners, may be applied, depending on application equipment.
- Apply one to two coats of ***Zinc Phosphate Primer*** to the prepared steel surface so as to achieve complete obliteration and the required DFT. A third coat is recommended for coastal areas.
- Overcoat with one or two coats a suitable solvent-based top coat (e.g. ***QD Enamel*** or ***Autocote Enamel***).

STORAGE AND PACKAGING:

- Store in approved fire store.
- Store away from direct sun, heat and severe cold. Do not exceed 50ºC.
- Shelf life 12 months from date of manufacture, when correctly stored and unopened.
- Single pack. 1lt, 5lt, 20lt & 200lt
- Empty containers should be left open in well ventilated area to dry out.
- Do not pour paint down the drain.
- Brush out unwanted paint on newspaper, allow to dry and dispose of via waste collection.
- Dry containers can be disposed of via waste collection or recycled via recycling programs.

TRANSPORTATION:

This product is classifiable in accordance with transportation and classification of dangerous goods act (1996). Flammable.

SHIPPING NAME:	Paint related material
PACKAGING GROUP:	III
HAZARD CLASS:	3
S.I.N/UN NUMBER:	**1**263

CAUTIONS:

- Avoid painting during inclement weather or if temperature is below 10ºC.
- Drying times increase as ambient temperature falls below 25 ºC.
- Do not add water to this product.
- Do not overcoat with water-based top coats.
- For optimum performance a practical spreading rate of 10 M² / l should not be exceeded.
- Not recommended for acid or alkaline conditions.

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SAFETY PRECAUTIONS:

- Keep out of reach of children.
- Ensure good ventilation during application and drying.
- In case of skin contact, wash with soap and water or a recognized skin cleaner. Avoid contact with eyes – In case of contact, rinse eyes immediately with plenty of water and seek medical attention.
- Harmful if swallowed. Seek medical attention.
- Refer to Safety Data Sheet (SDS) for complete information. See www.durapaints.co.za.

DISCLAIMER:

- *The recommendations contained herein are given in good faith and are meant to guide the specifier or the user.*
- *They are based on results gained from our experiences and tests and are believed to be reliable.*
- *Products are manufactured to stringent specifications under laboratory controlled conditions. No guarantee is implied by the recommendations contained herein since conditions of use, method of application and cleanliness of the substrate prior to painting are beyond our control. Warranty is restricted to the replacement of defective product and excludes any direct, indirect or consequential loss of any nature howsoever caused.*
- *Technology may change necessitating changes to this Technical Data Sheet (TDS). It is the responsibility of the user to ensure that the latest TDS is being used. See www.durapaints.co.za.*