



## DURA INDUSTRIAL H<sub>2</sub>YDR O PRIME

TECHNICAL DATA SHEET NO : DI002  
DATE : 17 March 2010

**PRODUCT CODE:** Yellow Oxide : HYDPRIM (05) (20)

### PRODUCT DESCRIPTION:

- A cross-linking, low odour, water based matt primer.

### INTENDED USES:

- For priming of industrial steel applications – replacing solvent-based products.
- This product incorporates latest generation technology in pure acrylic, adhesion promoted binders and corrosion inhibitors.

### FEATURES:

- H<sub>2</sub>YDR O Prime has been specifically developed for use by fabrication shops, structural steel fabricators, palisade fencing manufacturers as well as for cranes, earth moving and mining equipment. H<sub>2</sub>YDR O Prime is a high quality alternative to solvent based coatings.
- The product contains no lead, solvent, chromates or formaldehydes and is classified under current and proposed European legislation as having no VOCs (volatile organic compounds).

### PRODUCT INFORMATION

- **APPEARANCE** : Matt
- **COLOUR** : Yellow oxide only
- **SOLIDS** : Approx. 45% by volume
- **S G @ 25°C** : 1.19g /cm<sup>2</sup> (Typical)
- **RECOMMENDED DFT** : MIN.: 35µm MAX.: 75µm
- **THEORETICAL SPREADING RATE** : 8m<sup>2</sup> / L @ 50µm DFT
- **PRACTICAL SPREADING RATE** : Please apply appropriate correction factors
- **VISCOSITY @ 25°C (WHITE)** : 100 - 105 Ku
- **FLASH POINT** : > 65°C

### APPLICATION DETAILS

- **MIXING** : Stir thoroughly with a flat paddle until homogeneous
- **METHOD** : Air, pressure pot, airless spray, brush or roller.
- **THINNING** : Dilution is not recommended.
- **CLEANING** : Water
- **SUBSTRATE** : Well cleaned, steel.

<i>APPLICATION ENVIRONMENT</i>	<u>SURFACE TEMP</u>	<u>AMBIENT TEMP</u>	<u>RELATIVE HUMIDITY</u>
	MIN.: 10°C OR 2°C MIN ABOVE DEW POINT	MIN.: 10°C	MIN.: -
	MAX.: 40°C	MAX.: 40°C	MAX.: 85%

- **DRYING TIME** 50µm : Touch dry 30 Min @ 25°C  
Dry to handle 3 Hours @ 25°C  
Re-coating 3 Hours @ 25°C

### STORAGE AND PACKAGING:

- Store away from direct sun, heat and severe cold
- Packaging : 5lt & 20lt Plastic containers with handle.

### TRANSPORTATION:

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

# DURA INDUSTRIAL H<sub>2</sub>hydrO PRIME (contd)

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## SURFACE PREPARATION:

- Ensure that surfaces are dry, sound, and free from dust, dirt, grease and oil before painting.
    1. Prime with **H<sub>2</sub>hydrO PRIME**.
    2. **Previously painted surfaces in good condition:**  
Remove loose and flaking paint back to a sound substrate and a firm edge by scraping and sanding. Spot prime bare areas with **H<sub>2</sub>hydrO PRIME**. Clean old paint down with **PROLONG PROSOAP** to remove all contaminants and chalked material. Rinse with clean water to remove all traces of sugar soap. Alternatively, clean with high pressure water jet.
    3. **Previously painted surfaces in poor condition (e.g. extensive peeling):**  
Completely remove paint by most appropriate means e.g. blasting, scraping or coarse sanding. Ensure substrate is sound, not peeling or flaking prior to coating.
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## RECOMMENDED PRIMER:

- Mild steel: **DURA PAINTS H<sub>2</sub>hydrO PRIME**
  - Galvanised steel: **DURA PAINTS H<sub>2</sub>hydrO PRIME**
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## APPLICATION:

- Apply two or more coats to new surfaces so as to achieve required build (DFT).
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## CAUTIONS:

- Avoid painting during inclement weather or if temperature is below 10°C.
  - For optimum performance a practical recommended spreading rate of 6 m<sup>2</sup> / l should not be exceeded.
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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 advice if symptoms persist. If ingested give plenty of water / milk. Do not induce vomiting. Seek medical attention.
  - Refer to Material Safety Data Sheet for complete information. See [www.durapaints.co.za](http://www.durapaints.co.za).
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## 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.

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.

Technology may change with time 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](http://www.durapaints.co.za).