

DURA INDUSTRIAL H₂YDRO PRIME

DI002

PRODUCT CODE:

<i>Hydro Prime Biscuit</i> (Plastic Containers/200lt Steel Drums):	: Hydprim (05) (20) (200)
<i>Hydro Prime Black</i> (Plastic Containers/200lt Steel Drums):	: Hydprimbl (05) (20) (200)
<i>Hydro Prime Grey</i> (Plastic Containers/200lt Steel Drums):	: Hydprimgr (05) (20) (200)

PRODUCT DESCRIPTION: A cross-linking, low odour, water based primer. It is recommended as a high quality adhesion promoted primer for application to prepared steel surfaces. The product is water-based, non- flammable and lead free.

INTENDED USES: A high performance water based coating, developed for industrial steel applications that replaces solvent based alkyd coatings such as Zinc Phosphate and GP Primers. **Hydro Prime** incorporates latest generation technology in pure acrylic, adhesion promoted binders and corrosion inhibitors.

FEATURES: **Hydro Prime** has been specifically developed for use by fabrication shops, structural steel fabricators, shipping container manufacturers/converters and palisade fencing manufactures as well as for cranes, earth moving and mining equipment. A high quality alternative to solvent based alkyd primers. **Hydro Prime** contains no lead, solvent, chromates and is low in VOCs.

PRODUCT INFORMATION:

• APPEARANCE	Matt.
• COLOUR	Black and yellow (biscuit), grey
• SOLID CONTENT: <u>Biscuit & Grey</u>	59% by mass. 46 % by volume
• SOLID CONTENT: <u>Black</u>	39% by mass. 31% by volume
• SG @ 25°C: Biscuit & Grey	1.36
• SG @ 25 °C: Black	1.10
• RECOMMENDED DFT	MIN : 25µm MAX: 40µm
• PRACTICAL SPREADING RATE @ 35µ: Biscuit:/Grey	12- 14 m ² . (dependant on substrate and application thickness (DFT).
• PRACTICAL SPREADING RATE @ 35µ: Black	8- 10 m ² . (dependant on substrate and required Dry Film Thickness (DFT).
• VISCOSITY @ 25°C (Biscuit/grey)	80TO 85 KU
• VISCOSITY @ 25°C (Black)	60 TO 65 KU

APPLICATION DETAILS:

• MIXING	Stir thoroughly with a flat paddle until homogeneous. Do not shake as this creates air bubbles.
• METHOD: Biscuit/Grey	<u>Brush, Airless spray or pressure pot only.</u>
• : Black	<u>Airless spray or pressure pot only.</u>
• THINNING	Not recommended. Addition of water will reduce hiding, build (DFT) increase drying time.
• CLEANING	Water
• SUBSTRATE	Prepared steel.

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- 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%

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|-------------|---------------|----------------|
| DRYING TIME | Touch dry | 30 Min @ 25°C |
| | Dry to handle | 2 hours @ 25°C |
| | Overcoating | 2 hours @ 25°C |

STORAGE AND PACKAGING:

- Store away from direct sun, heat and severe cold. Do not exceed 50°C.
- Keep containers tightly closed.
- Packaging 5lt, 20lt, 200lt – depending on colour.
- Shelf life. 12 months from date of manufacture when correctly stored and unopened.

TRANSPORTATION:

SHIPPING NAME:	Not classified
PACKAGING GROUP:	Not classified
HAZARD CLASS:	4-H-C
S.I.N/UN NUMBER:	Not classified dangerous for transport

SURFACE PREPARATION:

Ensure surface is dry and free from rust, dirt, dust, chalking, oil, grease and any other contamination before painting.

Unpainted Substrate:

Mild Steel.

- Preferably sand blast substrate. Alternatively, after removing rust, degrease with *ProLong Grease Devil* and rinse thoroughly with water. Allow to dry.
- Prime with one or two coats *Dura Hydro Prime* depending on required DFT.
- Apply one or two coats *Dura Hydro Finish*, depending on colour or required Dry Film Thickness (DFT).

APPLICATION:

Apply one or two coats, depending on the required DFT. Apply un-thinned, to prepared surfaces so as to achieve required build. Stir well before using.

CAUTIONS:

- Avoid painting during inclement weather or if temperature is below 10°C.
- For optimum performance a practical recommended spreading rate of 12m² / l (Biscuit/Grey) and 8 m²/l (*Black*), should not be exceeded.
- It is very important to purchase sufficient paint to complete the project. Different batches may result in slight variations in colour that are beyond the control of the manufacturer.
- Do not add water to this product as it may result in flash rusting, will increase drying times and reduce build (DFT).
- Never add thinners/solvent to this product.
- Do not clean surface to be painted with solvent/solvent based products – use water based *Prolong Grease Devil*.
- Never paint water based coatings over solvent based coatings or vice versa.

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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 with eyes rinse 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.

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 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.*