

DURA INDUSTRIAL H₂YDRO PRIME

DI002

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

PRODUCT DESCRIPTION: **Hydro Prime** is a Direct-to-metal (DTM), cross-linking, low odour, water-based, high quality, adhesion promoted primer for application to prepared steel, galvanised iron and aluminium surfaces. Hydro Prime has been specifically developed for use by fabrication shops and for structural steel, palisade fencing, containers, earthmoving equipment, cranes and mining equipment.

INTENDED USES: A Direct-to-metal (DTM) high performance water-based coating, developed for industrial steel applications that replaces and out performs 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** is lead free, solvent free, low odour, low VOC, non-flammable, water-based, adhesion promoted, high build and corrosion inhibiting. Hydro Prime replaces and outperforms solvent- based alkyd coatings.

PRODUCT INFORMATION:

• APPEARANCE	Matt.
• COLOUR	Black and yellow (biscuit), grey
• SOLID CONTENT: <u>Biscuit & Grey</u>	54% by mass. 42 % by volume
• SOLID CONTENT: <u>Black</u>	34% by mass. 27% by volume
• SG @ 25°C: Biscuit & Grey	1.36
• SG @ 25 °C: Black	1.14
• RECOMMENDED DFT	MIN: 25µm MAX: 40µm per coat.
• 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)	80 TO 85 KU
• VISCOSITY @ 25°C (Black)	60 TO 65 KU

APPLICATION DETAILS:

• APPLICATION	Brush or Airless/Pressure Pot Spray. Conventional spray not recommended.
• METHOD: Biscuit/Grey	<u>Brush / Airless spray / pressure pot only</u>
• : Black	<u>Brush / Airless spray / pressure pot only</u>
• DILUTION	Not Recommended. Do not add solvent or thinners to this product.
• CLEANING	Water
• OVERCOAT	Overcoat with Dura Paints Hydro Finish . Do not overcoat Hydro Prime / Hydro Finish with solvent-based coatings
• 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%

- DRYING TIME

Touch dry	30 Min
Dry to handle	2 hours
Overcoating	4 hours

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.
- 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 programmes.

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

Unpainted Substrate:

- Preferably sand blast substrate. Alternatively, remove rust by sanding or wire brush.
- Degrease with Hydro Clean or ProLong Grease Devil, rinse thoroughly with water and allow to dry.
- Do not clean substrate with thinners / solvents
- Prime with one or two coats of Hydro Prime, depending on the required DFT.
- Overcoat with one or two coats of Hydro Finish, depending on the colour and the required 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:

- Do not apply if the temperature of the substrate or ambient temperature is below 10 degrees.
- 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.
- The use of conventional spray equipment is not recommended. May result in a loss of gloss and pinholes in the surface.
- 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.
- Failure to follow surface preparation instructions may result in staining of the finished coating. (Flash rusting.)

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SAFETY PRECAUTIONS:

- Keep away from children.
- Ensure good ventilation during application and drying.
- Take care to avoid contact with eyes. In case of contact, rinse eyes with clean water and seek medical attention.
- If contact with skin should occur, wash well with soap and water.
- Harmful if swallowed. 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.*