

DURA INDUSTRIAL H₂YDRO DTM

DI043

PRODUCT CODE: Transparent (Hydro DTM Plastic Containers): HYDDTM (20) (200)

PRODUCT DESCRIPTION: *Hydro DTM* is a high performance, cross-linking, low odour, water-based, UV resistant, adhesion promoted, anti-flash rusting, DTM (direct to metal), 2 in 1 primer and top coat for steel applications. *Hydro DTM* has been specifically developed as a bulk product for use by fabrication shops, structural steel, shipping containers and scaffolding applications.

INTENDED USES: A high-performance water-based, 2 in 1 coating for industrial steel applications that replaces and outperforms most solvent based coatings. *Hydro DTM* provides an alternative to traditional Anchorbond or QD Enamel applications. *Hydro DTM* incorporates latest generation technology in pure acrylic, adhesion promoted, non-yellowing, UV stable binders. *Hydro DTM* is best suited for large steel surface applications. Also highly suitable for scaffolding applications.

FEATURES:

Complies with the South African legal lead limit of <90ppm or less.	Low odour
Water-based and non-flammable	Anti-flash rusting formulation
Convenience (2 in 1 application)	Low VOC
Corrosion inhibiting	Good build
Adhesion promoted	UV resistant
Attractive semi-gloss finish	Economical
Low blocking characteristics	Hard finish

**Adherence to substrate and hardness continues to improve over a period of approximately 7 days.*

PRODUCT INFORMATION:

- APPEARANCE Semi-gloss.
- COLOUR Transparent, can be tinted.
- SOLID CONTENT 35% by mass (Varies by colour/base)
33% by volume (Varies by colour/base)
- S G @ 25°C 1.04 (Varies by colour)
- RECOMMENDED DFT MIN: 25µm MAX: 40µm
- PRACTICAL SPREADING RATE 8 - 10 m². (dependant on substrate and application thickness (DFT)).
- VISCOSITY @ 25°C Transparent
60 – 65 KU (varies by colour/base).

APPLICATION DETAILS:

- MIXING Stir thoroughly with a flat paddle until homogenous. Do not shake.
- APPLICATION Airless/Pressure Pot Spray. Conventional spray and brushing not recommended.
- DILUTION Not Recommended. Do not add solvent / thinners to this product.
- CLEANING Water
- SUBSTRATE Suitably prepared steel.
- OVERCOAT Do not overcoat Hydro DTM with solvent-based coatings.
- 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

TECHNICAL DATA SHEET

DURA INDUSTRIAL H₂YDRO DTM (cont.)

STORAGE AND PACKAGING:

- Store away from direct sun, heat and severe cold. Do not exceed 50°C.
- Keep containers tightly closed.
- Packaging: 20lt, 200lt
- 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 (mild steel)

- 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.
- Coat with one or three coats of **Hydro DTM** depending on the required DFT.

Previously Painted Substrate (mild steel).

- Remove all loose and flaking paint by scraping, sanding or hydro blasting. Lightly sand surface.
- Clean with **ProLong Pro Soap** or **ProLong Grease Devil**. Rinse well with water and allow to dry.
- Paint a test patch of **Hydro DTM**. If result are not satisfactory, remove all paint, and proceed as per unpainted substrate above.
- Apply one to three coats of **Hydro DTM** depending on the colour or required DFT.

APPLICATION:

Apply one to three coats, depending on the colour and required DFT. Apply un-thinned, to prepared surfaces so as to achieve complete obliteration. Apply with airless spray equipment or pressure pot.

CAUTIONS:

- **Do not apply if temperature of the substrate is ambient temperature is below 10 degrees.**
- **Hydro DTM** is not suited for roofing applications, or for coating small items.
- For optimum performance a practical recommended spreading rate of 10 m² / l 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 a loss of gloss and will increase drying times.
- Never add thinners/solvent to this product.
- Do not clean surface to be painted with solvent/solvent based products.

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.
- This product complies with the South African legal lead limit of <90 ppm or less.
- Refer to Material Safety Data Sheet for complete information. See 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 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.*