

DURA INDUSTRIAL H₂YDRO DTM

DI043

PRODUCT CODE:

Transparent (Hydro DTM Plastic Containers):
HYDRO DTM Black 200LT
HYDRO DTM Blue 200LT
HYDRO DTM Blue Green 200LT
HYDRO DTM Cat Yellow 200LT
HYDRO DTM Dark Green 200LT
HYDRO DTM Golden Yellow 200LT
HYDRO DTM Green 200LT
HYDRO DTM Orange 200LT
HYDRO DTM Signal Red 200LT

HYDDTM (20) (200)
HYDDTMSABK (200)
HYDDTMSABL (200)
HYDDTMSABG (200)
HYDDTMSACY (200)
HYDDTMSADG (200)
HYDDTMGLD (20)
HYDDTMSAGR (200)
HYDDTMSAOR (200)
HYDDTMSASR (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) 33% by volume (Varies by colour)
• S G @ 25°C	1.04 (Varies by colour)
• RECOMMENDED DFT	MIN: 25µm MAX: 40µm
• PRACTICAL SPREADING RATE	8 - 10 m ² . (dependant on substrate and application thickness (DFT).)
• VISCOSITY @ 25°C	Clear / Standard Colours. 60 – 65 KU (varies by colour).

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.

TECHNICAL DATA SHEET

DURA INDUSTRIAL H₂YDRO DTM (cont.)

- 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: 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.

TECHNICAL DATA SHEET

DURA INDUSTRIAL H₂YDRO DTM (cont.)

- 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.
- Refer to 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.*