

HEAVY DUTY EPOXY PRIMER

DI041

PRODUCT CODE: HD Primer Red Part A 05LT : HDEPREDO(05)
 HD Primer Grey Part A 05LT : HDEPGREY (05)
 HD Primer Part B : HDEPCAT (05)

Complies with the South African legal lead limit of 90ppm or less.

PRODUCT DESCRIPTION: A high build, polyamide, cured Heavy Duty Epoxy Primer to be used in conjunction with **Dura Epoxy Enamel** or **Dura Heavy Duty Polyurethane**.

INTENDED USES: A heavy duty primer for steel and concrete applications which require high build (high DFT's), high volume solids, and excellent corrosion and chemical resistance.

Note: For concrete floor applications, Dura Concrete Primer overcoated with **Dura Epoxy Enamel** or **Floorkote** is recommended.

FEATURES:

Excellent adhesion & corrosion protection	Good overcoating tolerance
Good chemical resistance	Tough and hard once dry
Continuous temperature resistance of 92°C	Weathering: Chalks
Very good abrasion resistance	Excellent flexibility and corrosion resistance

CHEMICAL RESISTANCE:

Exposure	Splash / Spillage	Fumes
Acids	Good	Very good
Alkalies	Good	Excellent
Solvents	Very good	Excellent
Salt	Excellent	Excellent
Water	Excellent	Excellent

PRODUCT INFORMATION:

- APPEARANCE: Matt
- COLOUR: Red Oxide and Grey (*MIO containing).
- VOLUME SOLIDS: 50% ±2% (varies by colour).
- S G @ 25°C: 1.31 – 1.36 (Varies Slightly by colour).
- RECOMMENDED DFT: MIN.: 60µm MAX: 90µm per coat.
- THEORETICAL COVERAGE: 6.7 m² at 75 µm.
- PRACTICAL SPREADING RATE: 9 - 12 m² /L at 50µm (DFT).
- VISCOSITY @ 25°C (WHITE): 82 – 88 KU (depending on colour).

* *Micaceous Iron Oxide*

APPLICATION DETAILS:

- MIXING: The base (**Part A**) and hardener (**Part B**) should be added in a ratio of 1:1 and thoroughly power mixed.
- METHOD: Brush, mohair roller or airless spray (recommended).
- THINNING: Dura Epoxy Thinners may be added, depending on the application and the required DFT.
- CLEANING: Dura Epoxy Thinners.
- SUBSTRATE: Prepared steel and concrete.
- 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%

- Do not apply when ambient or surface temperature is below 10 °C, or in inclement weather.
- DRYING TIME:

Touch dry	25 Min @ 25°C
Hard dry	6 Hours @ 25°C
Overcoating	6 Hours @ 25°C
Full cure	2 Days @ 25°C

TECHNICAL DATA SHEET

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SURFACE PREPARATION:

- Ensure that surfaces are dry, sound, and free of rust, dust, dirt, grease and oil before painting.
- Degrease with **ProLong Grease Devil** (for steel and concrete) and rinse thoroughly with clean water. Allow to dry.
- Remove loose and flaking paint down to a sound substrate and a firm edge by scraping and lightly sanding existing paint to ensure good adhesion.

Steel Preparation Recommendation:

Grit blast to SA 2 to A 25-50 micron profile. For touch-ups power tool clean to ST3.

Concrete:

- Only apply over new concrete that has been cured for at least 28 days at 50% RH or equivalent. Prepare the concrete by sand blasting, or acid etching (and rinsing), prior to application.
- Prepare old concrete by sand blasting, or acid etching (and rinsing), prior to application.
- Ensure that there is no moisture in the substrate before proceeding. The use of a moisture meter is recommended. Alternatively, to test concrete moisture content, cover a section of concrete with a plastic sheet, secure firmly and leave overnight. If there is no moisture trapped between the concrete and plastic sheet, proceed with priming. If moisture prevalent, allow concrete to dry fully before proceeding.

APPLICATION:

The **HD Epoxy Primer** base (**Part A**) and hardener (**Part B**) should be added in a ratio of 1:1 and power mixed. Once mixed, use within hours.

- Apply using a mohair roller, airless spray or paint brush.
- Apply product as soon as possible.
- Apply **HD Epoxy Primer** to the prepared surface so as to achieve the required DFT.
- Steel: 1 coat **HD Primer Grey** and 1 coat **HD Primer Red** is recommended as a guideline.
- Concrete, 2 coats of **HD Primer Red** is recommended as a guideline.
- Allow a minimum of 6 hours drying time between coats.
- Overcoat with **Dura Epoxy Enamel** or **Dura Heavy Duty Polyurethane**.
- Coverage/spreading rate depends largely on the condition of the substrate being painted and the manner in which the product is applied.

STORAGE AND PACKAGING:

- Store in approved fire store.
- Store away from direct sun, heat and severe cold. Do not exceed 50°C.
- Keep containers tightly closed.
- Shelf life 12 months from date of manufacture, when correctly stored and unopened.
- Pot life 6 hours @ 25 °C
- 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 programs.

TRANSPORTATION:

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

SHIPPING NAME:	Paint related material
PACKAGING GROUP:	III
HAZARD CLASS:	3
S.I.N/UN NUMBER:	1307

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 attention.
- Harmful if swallowed. Seek medical attention.
- Refer to Safety Data Sheet (SDS) 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.*
- *Products are manufactured to stringent specifications under laboratory controlled conditions. 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. Warranty is restricted to the replacement of defective product and excludes any direct, indirect or consequential loss of any nature howsoever caused.*
- *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.*