

EPOXY ENAMEL

DI004

PRODUCT CODE:	Epoxy LF Black	: EPBLA (04)
	Epoxy LF Battleship Grey	: EPDG (04)
	Epoxy Clear	: EPCL (04)
	Epoxy LF Navy Light Grey	: EPNAV (04)
	Epoxy LF Ford Grey	: EPFDG (04)
	Epoxy LF Ford Green	: EPFDGR (04)
	Epoxy LF White	: EPWH (04)
	Epoxy Tinted Colours	: EPCL (04)
	Epoxy LF Catalyst see separate TDS and SDS	: EPCAT (01)

PRODUCT DESCRIPTION: A twin pack, chemical resistant coating for use on concrete or steel substrates.

INTENDED USES: A two component, polyamide epoxy enamel formulated to provide excellent chemical, abrasion and direct impact resistance. Use as a top coat to concrete and steel surfaces. Epoxy Enamel is also suited for use as a heavy duty coating for factory and warehouse flooring.

FEATURES: Polyamide cured epoxy. Good chemical, abrasion and impact resistance. Excellent adhesion and good flow.

PRODUCT INFORMATION:	<ul style="list-style-type: none"> • APPEARANCE • COLOUR • VOLUME SOLIDS • MASS SOLIDS • S G @ 25°C • RECOMMENDED DFT • PRACTICAL SPREADING RATE • VISCOSITY @ 25°C 	<p>Semi Gloss</p> <p>Standard and colours to customer spec</p> <p>52% (Typical – depending on colour)</p> <p>62% (Typical – depending on colour)</p> <p>1.2 kg / l (Typical – depending on colour)</p> <p>50 Microns - Important</p> <p>10m² p/ LT at 50 Microns</p> <p>58 to 63 KU – uncatylsed</p>
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APPLICATION DETAILS:

- **MIXING** Stir thoroughly with a flat paddle until homogeneous. Do not shake can as this may cause air bubbles. **Mixing ratio:** 4 parts **Epoxy Enamel** to 1 part **Epoxy Catalyst** by volume (as supplied) is critical to coating performance. Failure to follow this mixing ratio may result in product failure.
- **METHOD** Mohair roller, brush or airless spray.
- **THINNING** Up to 10% **Dura Epoxy Thinners** – Thin with minimum amount if necessary.
- **CLEANING** **Dura Epoxy Thinners**
- **SUBSTRATE** May be applied directly to steel, grit-blasted to SA2.5. For increased corrosion resistance apply over **Dura HD Epoxy Primer**.
- **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 substrate temperature is below 10°C or during inclement weather.
- **DRYING TIME**

Touch dry	4 Hours @ 25°C
Dry to handle	24 Hours @ 25°C
Re-coating	16 - 72 hours @ 25°C

SURFACE PREPARATION:

- Ensure that surfaces are dry, sound, and free of rust, dust, dirt, grease and oil before painting.
- 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.

TECHNICAL DATA SHEET

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- New concrete/cement flooring must be at least 1 month old and have a moisture content of <12% before coating.
- Degrease with **ProLong Grease Devil** (for steel and concrete) and rinse thoroughly with clean water. Allow to dry.
- Ensure that there is no moisture in the substrate before proceeding. Preferably, use a moisture meter suitable for concrete. Alternatively, to test concrete floor moisture content, cover a section of flooring with a plastic sheet, weigh down with bricks and leave overnight. If there is no moisture trapped between the floor and plastic sheet, proceed with priming. If moisture prevalent, allow floor to dry fully before proceeding.
- Prime with **Dura HD Epoxy primer** (for steel). Overcoat with **Epoxy Enamel** to achieve the required build and finish.
- **Concrete:** Apply one liberal coat of **Dura Concrete Primer** using a mohair roller or brush. Do not leave the **Dura Concrete Primer** for longer than 72 hours before overcoating with **Epoxy Enamel**. Overcoat with **Epoxy Enamel** to achieve the required build and finish.

APPLICATION:

- Mixing ratio: 4 parts **Epoxy Enamel** to 1 part **Epoxy Catalyst** by volume (as supplied) is critical to coating performance.
- Thinning is not recommended.
- Apply using a mohair roller, airless spray or paint brush.
- Apply catalyzed product as soon as possible.
- Apply two coats of **Dura Epoxy Enamel** to the prepared surface so as to achieve complete obliteration and the required DFT.
- Allow a minimum of 16 hours drying time before the application of the second coat.
- Coverage/spreading rate of **Dura Epoxy Enamel** depends largely on the condition of the substrate being painted and the manner in which the product is applied.
- Allow sufficient drying time before subjecting **Epoxy Enamel** to traffic.
- Masking tape may be used to aid in line marking definition. Slowly remove masking tape while adjacent coating is still wet.

For Heavy Duty Floor Applications (areas of high traffic).

- Lightly grind the concrete substrate and ensure that substrate is clean and free of any contaminants.
- Apply one liberal coat of **Concrete Primer and Catalyst** (TDS available at www.durapaints.co.za) using a mohair roller or brush. Do not leave the **Dura Concrete Primer** for longer than 72 hours before overcoating with **Epoxy Enamel**.
- Apply two to three coats of **Epoxy Enamel** using a mohair roller, airless spray or paint brush - **Min DFT per coat of 50 Microns**. Do not roll-out the coating.
- **Total DFT of 120 microns for total system application.**
- **A minimum of 1L/10m² must be achieved**, or further subsequent coats will be required.
- Allow a minimum of 16 hours drying time before the application of subsequent coats.
- Allow sufficient drying time, to ensure full cure of the coating, before subjecting **Epoxy Enamel** to traffic.

STORAGE AND PACKAGING:

- Packaging 4lt Epoxy Enamel + 1lt Catalyst (4:1lt mixing ratio).
- 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 (once catalyst added): 4 hours.
- 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
PACKAGING GROUP: III
HAZARD CLASS: 3
S.I.N/UN NUMBER: 1307

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CAUTIONS:

- Very important: do not paint during inclement weather or if temperature of substrate is below 10°C.
- For optimum performance a practical recommended spreading rate of 8m² / l should not be exceeded.
- Drying times increase as ambient temperature falls below 25 °C.
- Pot life (once catalyst added): 4 hours. Pot life decreases as ambient temperature increases above 25°C.
- Never mix **Dura Epoxy** with any other Catalyst.
- Mixing ratio: 4 parts Epoxy Enamel to 1 part Epoxy Catalyst by volume (as supplied) is critical to coating performance. Failure to follow this mixing ratio may result in product failure.
- It is recommended that technical advice be requested before painting concrete flooring.
- Never apply coating without adding Dura Epoxy Catalyst.
- Do not overcoat with water-based coatings or vice versa.
- Do not overcoat Floorkote Enamel with Epoxy Enamel.
- 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.

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

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. It is up to the customer to determine and confirm the suitability of the product for the required purpose and application.*
- *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.*