

DULUX TRADE FLOORCOTE ENAMEL

TECHNICAL DATA SHEET

Version 1 – 2018 FEBRUARY

THIS ISSUE SUPERSEDES ALL PREVIOUS PUBLICATIONS

PRODUCT DESCRIPTION

Durable semi-gloss enamel for interior and exterior cement and concrete floors

PRODUCT USES

- For direct application to new, but dry cement or concrete floors.
- May be applied to previously painted or old cement surfaces, provided the surface is clean, sound and free from wax polish.
- May be used for decorating interior and exterior cement and concrete window sills

FEATURES AND BENEFITS

- Alkali Resistant
- Colour Fast.
- Hard wearing and easy to clean.
- Easy to re-paint when recoating becomes necessary.
- Prevents disintegration of cement floors.

PRODUCT INFORMATION

Appearance	Semi-Gloss
Colour	Red Oxide, Dark Sea Grey, Black, Chrome Oxide Green, Brilliant Green
Binder Type	Modified Alkyd with alkali resistant properties
Density at 23°C	Approx. 0.99Kg/L
Solids Content	By weight: Approx. 55% By volume: Approx. 40%
Packaged Viscosity	Viscosity at 23°C: Approx. 70 KU
Spreading Rate	Approx. 8m ² - 10m ² per litre depending on surface porosity, profile and application method.
Recommended DFT per coat	Min. 30µm. Max. 45µm.
Recommended WFT per coat	Min. 80µm. Max. 110µm
Flash Point	37°C

APPLICATION INFORMATION

Mixing	Stir until homogeneous with a flat paddle.
Application Surface conditions	Surface Temperature between 10 - 35°C. Relative Humidity between 10 - 85 % OR 2°C above dew point minimum.

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APPLICATION INFORMATION

Application methods	<p>Brush, Roller (mohair or closed foam type roller) or spay.</p> <p><u>Non-skid pedestrian areas:</u></p> <p>Follow the cleaning and etching instructions below (Surface Preparation).</p> <p>Apply Coat 1 and, while it is still wet, sprinkle dry, washed silica sand over the surface. (The sand should be sifted through a 250µm sieve and retained on a 210µm sieve. A practical spreading rate is 500 grams of silica sand per square meter of painted floor.)</p> <p>The following day, sweep off any excess sand and apply Coat 2 to seal the surface. Allow overnight drying again before applying Coat 3.</p>
Thinner	<p>Thinning not recommended. Ready for use after thorough stirring.</p> <p>For spray application use Mineral Turpentine to a maximum of 10% of product volume to thin product.</p>
Drying Time	Surface dry 4 hours at 23°C.
Recoating Time	18 hours at 23°C (Drying times will be extended during cold, wet or humid conditions.)
Cleaning of equipment	After use, remove as much product as possible, and then clean immediately with Dulux Pre-Paint Brush Cleaner Degreaser or Mineral Turpentine.
Substrates	Suitable for cement plaster and concrete floors
Precautions:	<p>Do not apply during cold (below 10°C) or wet weather.</p> <p>Do not apply directly to metal surfaces.</p> <p>Not suitable for direct application to powdery or friable surfaces whether previously painted or not.</p> <p>Do not clean surface within 7 days of applying</p>
Coats Required	<p>Apply two to three finishing coats to surfaces to achieve a continuous closed film and solid colour.</p> <p>For non-skid pedestrian areas, three full coats will be required. See "Application methods".</p>

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SURFACE PREPARATION

Ensure that cement floors and freshly rendered concrete are protected by suitable damp coursing and well cured for 6 weeks before any preparation and painting is attempted, sound and free from dust, oil, grease, dirt, and debris. Surfaces must be thoroughly dry - no more than 12% moisture content.

NEW SURFACES

New Cement Plaster, Concrete

- Freshly rendered concrete should have dried/cured for a minimum of 6 weeks, the moisture content of the concrete should be below 12% before any preparation and painting is attempted.
- It is recommended that fresh plaster should be allowed one week drying for every 5mm thickness; and longer in cold or damp weather.
- Ensure the entire surface is sound and clean. Remove any plaster spills, and all loose debris from the surface, ensuring an even and clean surface.
- Acid etch concrete surface with a solution of hydrochloric acid to remove laitance, uncured cement, etc. as follows:
 - ü On steel or power floated concrete (very smooth), use one volume hydrochloric acid to two volumes water. More than one application may be necessary to achieve a paintable surface.
 - ü On wood floated concrete (rough), use one volume hydrochloric acid to four volumes water.
- Allow the acid solution to react for 15 minutes and then wash away all acid with copious amounts of clean water. **N.B.** Hydrochloric acid is corrosive - please wear protective clothing, gloves, masks and eye goggles against splashes.
- Remove excess water and allow thorough drying – no more than 12% moisture content.

Old, weathered Cement Plaster, Concrete (not previously painted)

- Old concrete and cement surfaces which have been in use for a long time should be acid etched or thoroughly scrubbed with **Dulux Pre-Paint Brush Cleaner/Degreaser** to remove dirt, fats and oils.
- Follow with copious amounts of clean water and allow drying.
- If cement is smooth, acid etch as above.

SURFACE PREPARATION

PREVIOUSLY PAINTED SURFACES

Cement Plaster, Concrete

- All flaking paint must be removed back to a sound paint or substrate all painted surfaces should be rubbed down with abrasive paper to a matt finish to provide a profile for adhesion.

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SURFACE PREPARATION

PREVIOUSLY PAINTED SURFACES

Cement Plaster, Concrete - continue

- Wax polish may be removed from floors by washing with mineral turpentine followed by a rinse, using a strong solution of household detergent. **N.B.** Contamination of the paint with wax polish will affect the drying properties and adhesion.
- Mould instructions. To kill lichen and algae growth, scrub with one of the following solutions: either 4:1 water/chlorine, or 4:1 water/sodium hypochlorite. Ensure that the areas are completely saturated, and allow the solution to react for a minimum of 4 hours. Rinse the complete floor surface thoroughly with clean water and allow drying.

HEALTH AND SAFETY INFORMATION

Solvent based paints are flammable.

This product contains no added lead. Avoid contact with skin or eyes. Keep out of reach of children. If accidentally swallowed, seek medical advice immediately and show this container to the doctor. Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding should be used wherever possible.

If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used. Do not empty into drains or watercourses.

Ensure good ventilation during application and drying. It is recommended to use suitable protective clothing and equipment. To avoid the risk of spillage, always store and transport containers in a secure upright position. Refer to Material Safety Data Sheet for complete information.

ADDITIONAL INFORMATION

Packaging	5Lt
Storage Conditions	Store under cool dry conditions away from direct sunlight, heat and extreme cold.
Disclaimers	<p>Colour references are as accurate as modern printing will allow. Please refer to standard cards for an accurate representation of the colour.</p> <p>Among others, the following factors may affect final colour appearance: product sheen and texture, colour and light reflections, application, surface texture and preparation.</p> <p>For best colour and sheen consistency, it is advisable to use containers of the same batch number, to mix different batches together in a large container, or to finish in a corner before starting a new container.</p>

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TDS STANDARD DISCLAIMER

The recommendations contained herein are given in good faith and meant to guide the specifier or user in accordance with good painting practices. They are gained from our tests and experiences and are believed to be accurate and reliable. No warranty/guarantee is implied by the recommendations contained herein since the conditions of use; application method, substrate and cleanliness of the substrate are beyond Dulux control.

Important Note; Technology may change with time, necessitating changes to this Technical Data Sheet (TDS).

It is the responsibility of the user to ensure that the latest TDS is being used for reference. Dulux Technical Data Sheets are available on our website www.duluxtrade.co.za or please contact: Dulux On-Line on 0860 330 111. Email ZA.Helpline@akzonobel.com

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