

DULUX TRADE STERISHIELD DIAMOND EGGSHELL

TECHNICAL DATA SHEET

Version 3 – 2020 APRIL

THIS ISSUE SUPERSEDES ALL PREVIOUS PUBLICATIONS

PRODUCT DESCRIPTION

Sterishield Diamond Eggshell from **Dulux Trade** is a quick drying, water-based coating containing an in-film bactericide, which inhibits bacteria and reduces populations of MRSA, E. coli and Pseudomonas Aeruginosa. When combined with appropriate cleaning practices, **Sterishield** Diamond Eggshell from **Dulux Trade** helps to promote a more hygienic environment.

PRODUCT USES

- Suitable for use on normal interior wall and ceiling surfaces.

FEATURES AND BENEFITS

- Anti-Bacterial
- Tough, Scrubbable & Stain Resistant.
- Contains an Active Silver Bactericide
- When combined with appropriate cleaning practices, **Dulux Trade Sterishield Diamond Eggshell** has been shown to help inhibit bacterial growth and promote a more hygienic environment.
- Widely used in hospitals, clinics and surgeries. Recommended wherever hygiene is a priority, including laboratories and pharmaceutical manufacturing facilities, nursing and residential homes and social housing.
- Lower carbon and lower VOC content than conventional equivalent products.
- Will tolerate the levels of atmospheric humidity present in normal interior environments and will withstand moderate washing.
- For best results, use in conjunction with Dulux Trade Ecosure primers and undercoats.

PRODUCT INFORMATION

Appearance	Eggshell
Colour	See appropriate Dulux Trade colour literature
Binder Type	Acrylic Copolymer Emulsion.
Solids Content	By volume: Approx. 38% for White: (nominal). Other colours will vary.
Spreading Rate	Approx. 14-16m ² per litre depending on surface porosity, profile and application method.

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PRODUCT INFORMATION

VOC levels	EU limit value for this product (cat.: A/a): 30g/l (2010). <u>Ready mixed:</u> This product contains max. 20g/l VOC. VOC content: Low (0.30-7.99%). <u>Tinted colour:</u> This product contains max. 25g/l VOC. VOC content: Low (0.30-7.99%).
Recommended DFT per coat	Min. 25µm. Max.30µm
Recommended WFT per coat	Min. 65µm. Max. 80µm
Flash Point	Non-flammable
Film Properties	<u>Chemical Resistance:</u> Not suitable. <u>Heat Resistance:</u> Not suitable. <u>Water Resistance:</u> Will tolerate the levels of atmospheric humidity present in normal interior environments and will withstand moderate washing.

APPLICATION INFORMATION

Mixing	Stir until homogeneous with a flat paddle.
Application Surface conditions	Surface Temperature between 8 - 35°C. Relative Humidity between 10 - 85 % OR 2°C above dew point minimum. As with other water-based paints, do not use when the temperature is below 8°C (as recommended by British Standard BS6150).
Application methods	Brush & roller. <u>Conventional Spray:</u> Satisfactory through most equipment. <u>Airless Spray:</u> A typical set up for airless spray application would be a minimum working pressure on paint of 133 bars (2000 lb/sq in) with a spray tip size of 0.38mm (15 thou) and a spray tip angle of 65°.
Thinner	Thinning is not usually necessary unless: <u>Sealing new or bare surfaces (non-gypsum plaster):</u> Add up to 1-part clean water to 10 parts paint. <u>Normal use (not to be exceeded):</u> Add up to 1-part clean water to 10 parts paint. <u>Conventional spray application:</u> Add up to 1-part clean water to 2.5 parts paint. <u>Airless spray application:</u> Add up to 1-part clean water to 5 parts paint.
Recoating Time	2 - 4 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 water.

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APPLICATION INFORMATION

Substrates	Suitable for normal interior wall and ceiling surfaces: cement plaster, gypsum plaster, concrete, fibre cement, and various types of composite boarding provided appropriate preparation and priming is done.
Precautions:	Do not apply during cold (below 10°C) or wet weather. Do not apply directly to bare metal surfaces. Not suitable for direct application to powdery or friable surfaces whether previously painted or not. Not suitable for use on heated surfaces or for chemical resistance. Dulux Trade Sterishield Diamond Eggshell is not a substitute for good hygiene practice. Essentially a wall coating. Areas subject to continual handling/soiling, e.g. cupboards and door frames, use an Eggshell Enamel. Not suitable for use in kitchen. Do not clean the surface within 7 days of applying.
Coats Required	Apply two to three un-thinned finishing coats to surfaces to achieve a continuous closed film and solid colour.

SURFACE PREPARATION

To get the best results, ensure surfaces to be painted are sound, clean and dry (new surfaces particularly must be thoroughly dry - no more than 12% moisture content) and free from all defective or poorly adhering material such as dirt, grease and wax. Thoroughly rub down previously painted surfaces, using 'wet flattening' methods where possible, and then wipe off with a damp, lint free cloth. Special precautions should be taken during surface preparation of pre-1960s paint surfaces over wood and metal as they may contain harmful lead.

NEW SURFACES

Cement Plaster (non-friable), Composite Boarding and Fibre Cement

- Fresh plaster should be allowed one week drying for every 5mm thickness; and longer in cold or damp weather.
- Plaster sand to comply with SABS 1090 requirements. Plaster mix must have a minimum thickness of 10mm, free from soft and friable material and comply with SABS 0164-1 for strength (MPA).
- Spot prime nail heads with **Dulux Trade Corrocote 3 Metal Etch Primer**
- For very absorbent surfaces more than one coat **Dulux Trade Ecosure Plaster Primer** could be required to achieve correct binding and sealing properties. A 10% diluted coat of **Dulux Trade Sterishield Diamond Eggshell** can be used as a primer coat for non-friable cement plaster.

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SURFACE PREPARATION

NEW SURFACES

Gypsum Plaster - Interior

- Newly applied Gypsum Plaster can present variable surface finishes based on the application method, the quality and type of gypsum plaster used. This can present variability in the finish of the applied gypsum in terms of surface hardness, texture and porosity. This may require added attention during priming.
- Ensure the gypsum plaster is sound, non-friable, applied and cured as per the manufacturer's specifications.
- After wiping down the gypsum plaster, no chalky powder should remain on the surface.
- If the gypsum is sound, apply a single coat **Dulux Trade Ecosure Plaster Primer** or **Dulux Trade Alkali Resistant Primer** or **Dulux Trade Bonding Liquid**.
- As gypsum plaster is a very porous surface, adsorption of the plaster primer or bonding liquid may occur. To test for this, wipe a black cloth over the dried applied **Dulux Trade Ecosure Plaster Primer** or **Dulux Trade Alkali Resistant Primer** or **Dulux Trade Bonding Liquid** to test its integrity. If a white residue is found on the back of the cloth, apply 1 to 2 further coats of the respective **Dulux Trade Ecosure Plaster Primer** or **Dulux Trade Alkali Resistant Primer** or **Dulux Trade Bonding Liquid** applied to achieve the correct binding and sealing properties.

Concrete

- Remove any uncured cement, grease, and mould- release agents by high-pressure water blast, or wash with a strong solution of **Dulux Pre-Paint Sugar Soap**. Rinse off thoroughly with clean water and allow drying.
- Prime with one full coat **Dulux Trade Ecosure Plaster Primer**.

PREVIOUSLY PAINTED SURFACES

Good Condition, not powdery

- Remove any loose and flaking paint back to a sound substrate and firm edges by scraping and sanding.
- It is always good painting practice to rub down existing surfaces with fine sandpaper to remove nibs and dirt particles. Rubbing down also provides a smooth surface for painting.
- Enamel surfaces need to be sanded to a matt finish to aid adhesion, follow with a coat of **Dulux Trade Ecosure Undercoat**
- Clean surfaces with **Dulux Pre-Paint Sugar Soap** /water solution to remove all surface contaminants and chalky residue, rinse with clean water to remove all traces of the **Dulux Pre-Paint Sugar Soap** treatment and allow drying out.
- Spot prime bare exposed substrates with appropriate primer as per new surfaces
- Build up spot primed areas with **Dulux Trade Ecosure Undercoat** to the same level as the rest of the paintwork.

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SURFACE PREPARATION

PREVIOUSLY PAINTED SURFACES

Old Paint in poor condition

- Completely remove all loose and flaking paint.
- Remove oil, grease dirt or any other contaminants with **Dulux Pre-Paint Sugar Soap**/water solution and allow drying.
- Friable surfaces must be removed and repaired.
- Chalked surfaces must be thoroughly brushed. NOTE: While this product can be used for sealing chalked or slightly friable surfaces, it will not penetrate thick layers of powdery material. **Dulux Bonding Liquid** or **Dulux Trade Bonding Liquid**, which is un-pigmented, is preferred as alternative to **Dulux Trade Ecosure Plaster Primer** for correctly prepared chalky surfaces (non-friable) as it has the ability to penetrate further into the surface.
- 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 wall surface thoroughly with clean water and allow drying.
- Prime all exposed areas with appropriate primer as for new surfaces

FILLING

Fill all imperfections with the appropriate **Dulux Pre-Paint** filler and spot prime filled areas with **Dulux Trade Ecosure Plaster Primer** once the crack filler has dried properly. Failure to do this will result in uneven sheen levels between the repaired and normal areas.

HEALTH AND SAFETY INFORMATION

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.

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ADDITIONAL INFORMATION

Packaging	5Lt – White, Light Tinted, Medium Tinted and Ext/Deep Tinted.
Storage Conditions	Store under cool dry conditions away from direct sunlight, extreme heat and extreme cold.
Disclaimers	Colour references are as accurate as modern printing will allow. Please refer to the in-store stripe cards/ standard card, or on-shelf colour displays for an accurate representation of the colour. Among others, the following factors may affect final colour appearance: product sheen and texture, colour and light reflections, application, surface texture and preparation. For best colour and sheen consistency, it is advisable to use containers of the same batch number, or to mix different batches together in a large container, or to finish in a corner before starting a new container.
Tinting Protocol	The tint base containers are only filled to levels which are specific for each tint base to allow the calculated volume of colourants to be added in order to achieve the volume indicated on the container after tinting. Tint bases and colourants are unfinished products which should not be used on their own. Only once the prescribed colourant is added to the specific tint base will the finished product comply with the technical features and related information as set out in this Technical Data Sheet.

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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