

Elladur™ SF

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DESCRIPTION

Elladur™ SF is a coloured high-build, Polyaspartic/Polyurea type fast-cure floor coating system based on advanced materials, designed to provide a tough and durable gloss finish in a variety of thicknesses. Elladur™ SF is light stable with very good chemical resistance which can be applied to a variety of finishes and surfaces. Decorative and anti-slip finishes can also be created incorporating suitable flakes and aggregates.

ADVANTAGES

- Fast curing at low temperature
- High build
- UV stable
- Very low odour
- Tough but flexible
- Can be applied onto a wide range of substrates
- Can be used in commercial and industrial applications

RECOMMENDED USES

- Where high-build UV stable coatings are required
- Areas where fast turnaround but high performance finishes are required at low temperature.
- Medical, Commercial and Industrial Floor areas
- Decorative floors
- Domestic areas

PRODUCT INFORMATION

System Thickness (Recommended)	150 microns to 500 microns DFT per coat
Solids Content by Weight	100% solids by weight
Pack Sizes	5 kg
Pack Make Up	1 x Base 1 x Hardener
Shelf Life	12 months (Base & Hardener)
Storage	Keep out of direct sunlight. Store in a dry place between 15-30°C.

APPLICATION INFORMATION at 20°C

Coverage Rate (Theoretical)	5kg will cover between 6 to 20m ² depending on the applied thickness.
Pot Life	25 - 30 minutes
Recoating Intervals	2 - 3 hours or once surface has lost tackiness (maximum 8 hours)
Light Traffic	4 - 5 hours
Full Traffic	8 - 10 hours
Full Chemical Cure	7 days



Specification

Product : Elladur™ SF

Finish : Gloss

Recommended Thickness range : 150 - 500 microns (DFT)

COLOUR : Limited colour range, please consult Sherwin-Williams

Products required for this system

System : Elladur™ SF

Primer : Elladur™SF can be used as primer at 100 microns on dry substrates with less than 75% ERH or use R.S. Dampshield FH on damp surfaces where moisture levels are an issue.

Preparation

New Concrete Floors: New concrete must be clean, sound, dry and fully cured and surface laitance removed preferably by vacuum enclosed shot blasting or mechanical grinding, a minimum strength of 25N/mm² is required.

Timber Floors : Must be clean, sound, dry . Old clear varnish/topcoat must be removed/sanded and surface must be primed prior to application.

Existing Concrete Floors: Remove all dirt, oil, grease old paints or other surface contaminants by vacuum enclosed shot blasting, scarifying or mechanical grinding. Fats, oils or greases must be removed by mechanical means and detergent washing. Local repairs should be carried out using **Resupatch** or **Resuscreed 45**.

Existing Floors (previously coated)

All previous coatings and loose floor paints must be removed by mechanical preparation as described in the above section and primed as specified. If the old resin flooring cannot be removed, then please consult with our technical team for advice on intercoat adhesion and suitability, as it may not be compatible with existing floor coating.

Where over-coating other systems such as epoxy coatings or screeds, as part of a specified composite system in the data sheets please follow the recoat time as stated, these should be tack free, but not fully cured. If fully cured then mechanical preparation is required to ensure intercoat adhesion.

Where **Elladur™ SF** is applied to masonry/concrete surfaces, care must be taken to ensure that surface preparation is thorough but does not disfigure the surface.

Priming

Elladur™ SF may be applied to an existing resin floor systems where a primer is not required. When applied direct to porous substrates such as concrete the surface must be primed with **Elladur™ SF** to ensure good adhesion to the surface.

Where the Relative Humidity of the substrate exceeds 75% **R.S. Dampshield FH** should be specified and selected on the basis of hygrometer readings in accordance with BS 8203. The number of coats to be applied is chosen in accordance with the following table.

<u>ERH%</u>	<u>Required Coating Thickness</u>
75-85	1coat of R.S.DAMPSHIELD FH at 200 microns per coat
85-92	2coats of R.S.DAMPSHIELD FH at 200 microns per coat
92-97	3coats of R.S.DAMPSHIELD FH at 200 microns per coat

Application

Mixing: Pre-mix the base component to a uniform consistency then add the entire contents of the hardener to the base and mix by using a slow speed electric mixer for approximately for two minutes to achieve consistent mixture. Do not use a separate mixing bucket as it may affect the mixing ratio.

A rubber blade and/or a short haired roller can work best for this application to help avoid incorporating extra air and moisture in the coating.

It is important to ensure that the recoat times are observed, with a maximum recoat of 8 hrs measured at 20°C substrate temperature and 50% relative humidity. For other conditions please consult with our technical team. It is strongly recommended to apply second coat as soon as the first coat has lost the tackiness to achieve the maximum adhesion. If the maximum recoating interval is exceeded then surface must be prepared and roughened to ensure intercoat adhesion.

Application Conditions

Substrate Temperature 2 - 30°C

Note: Due to viscosity increase at lower temperatures application, use brushes or rubber blade to spread the coating and then back roll it if required to achieve proper coverage rate.

Relative Humidity up to 90 %

In case of application at lower temperature, DO NOT store the material at cold condition as it will affect the material viscosity and flow. Make sure material are kept at specified storage condition prior

Category Guide

FerFA Category : 3

Technical Information

The following figures are obtained from laboratory tests and our experience with this product .

Slip Resistance Dry > 50

Method BS7976 pt1-3 2002 Wet > 30

The slip resistance of a floor surface can vary as a result of the installation process, conditions at the time of application and subsequent traffic. Inappropriate cleaning or maintenance can adversely affect the performance. For further advice on potential wet areas please consult Sherwin-Williams.

Abrasion Resistance Average loss per 1000 cycles
Method BS8204 /ASTM D4060 75mg

Temperature Resistance Tolerant of temperatures of up to 70°C

Chemical Resistance Very good chemical resistance.
Consult Sherwin-Williams for specific materials

VOC <30 g/l calculated per full mixed unit.

Life Expectancy 2-4 years depending on applied thickness and subjected to traffic according to FerFA classification. Sherwin-Williams terms and conditions will apply.

Maintenance and Cleaning

Sherwin-Williams recommend that **Elladur™ SF** should be cleaned with a regular industrial cleaning regime with a floor scrubber utilising a soft bristle brush and **R.S. Industrial Floor Cleaner** or similar with dirty water being removed. Isolated localised cleaning can be carried out using **R.S. Tyre Mark Remover**, **R.S. Fats, Oils and Grease Remover** & **R.S. Oil Remover**. All surfaces should be thoroughly rinsed with clean water after the use of chemical cleaners.

Please refer to the Sherwin-Williams Guide to Cleaning of Resin Floors

Health and Safety

Elladur™ SF is formulated from materials designed to achieve the highest level of performance as safely as possible. However, specific components require proper handling and suitable equipment, this information is given in the relevant safety data sheets. In all cases, spillages or skin contamination should be cleaned as soon as practically possible, by dry wiping of the affected area, and thorough washing with soap and water.

The information given in this data sheet is derived from tests and experience with the products and is believed to be reliable. The information is offered without guarantee to enable purchasers to determine for themselves the suitability of the product for their particular application. Any specification or advice given by Sherwin-Williams or its agents is based on the information supplied by the purchaser. Sherwin-Williams cannot be held accountable for errors or omissions as a result of that information being incorrect or incomplete. No undertakings can be given against infringement of patents. Some materials are derived from natural sources. As such some variation may occur. Site conditions may also contribute to variation in finish and colour.

Sherwin-Williams Protective & Marine
Tower Works, Kestor Street, Bolton, BL2 2AL, United Kingdom,
Tel : + 44 (0) 1204 521771 F: + 44 (0) 1204 382115
W : Sherwin-williams.com/protectiveEMEA
Registered in England : Reg. No. 893081
Reg. Office Tower Works, Kestor Street, Bolton BL2 2AL England