Elladur™ SF QS Clear

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DESCRIPTION

Elladur™ SF QS Clear is a high-build Polyaspartic/Polyurea quick setting floor coating system based on advanced materials, designed to provide a transparent tough and durable gloss finish to a range of floor surfaces. Elladur™ SF QS Clear is light stable, VOC free with very good chemical resistance which can be used as a sealer and protective topcoat for decorative and anti-slip systems.

ADVANTAGES

- Quick set at low temperature and high humidity
- High build
- UV stable
- Very low odour
- Tough but flexible
- Can be applied onto a wide range of substrates.
- Can be used in decorative and functional environments
- No VOC
- Taint test approved based on Triangle test method TES-S-002

RECOMMENDED USES

- Where a high-build UV stable Clear top-coat/seal coat required
- Areas where fast turnaround but high performance finishes are required
- Medical, Commercial and Industrial
- Decorative floors
- Domestic floor areas
- Mezzanine floors
- Where taint approved coating is required

PRODUCT INFORMATION

Recommended Thickness (DFT)	Solids content by weight	Pack sizes	Pack make up	Shelf life	Storage
150 microns to 250 microns (Per coat)	100 %	2.5 kg	1 X Base 1 X Hardener	12 months in sealed containers	Keep out of direct sunlight Store in a dry place Between 15-30 C

APPLICATION INFORMATION at 20°C

Coverage rate (Theoretical)	Pot life	Recoating Intervals	Light traffic	Full traffic	Full chemical cure
Clear 2.5 kg / 9 -15 m^2	10 –15 minutes after mixing	2 hours or once surface has lost Tackiness (Maximum 8 hours)	4-5 Hours per coat	8-10 hrs	7 days

Specification

Product : Elladur™ SF QS Clear

Finish : Gloss

Recommended Thickness Range : 150-250 microns (DFT)

Colour : Clear

Products required for this system

System : Elladur™ SF QS Clear

Primer : Elladur SF Clear (if required)

Surface Seal : n/a

Preparation

Concrete Floors: Concrete must be clean, sound, dry and fully cured and surface laitance removed by vacuum enclosed shot blasting or mechanical grinding, a minimum strength of 25N/mm^2 is required.

Substrate moisture content should be less than 75% ERH on the basis of hygrometer readings in accordance with **BS 8203**.

Timber Floors : Must be clean, sound, dry . Old clear varnish/topcoat must be removed/sanded prior to application, as it may affect the inter-coat adhesion with **Elladur™ SF QS Clear**.

Please Note: Elladur™ SF QS Clear is not recommended to be used on damp substrate under any condition.

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 advise on intercoat adhesion and suitability, as it may not be compatible with existing floor coating.

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

Elladur™ QS Clear is recommended as a clear top coat on **Elladur™ Deco FL**, for further information please refer to Deco FL instruction.

Priming

Elladur™ SF QS Clear may be applied direct to a prepared substrate or as a seal coat to resin floor systems where a primer is not required.

When applied direct to porous and dry substrates the first coat of Elladur SF Clear recommended as primer followed by one coat of Elladur SF QS Clear as topcoat.

Application

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.

Mixing: Pre-mix the base component to a uniform consistency then add the entire contents of the hardener to the base. and mix gently to achieve consistency and clarity. Do not use a separate mixing bucket as it may affect the mixing ratio. Mix using a slow speed electric mixer for approximately two minutes or until the two components have fully combined to a clear mixture, try to avoid fats mixing as it can create air bubbles in the mixture. A short haired roller can work best for application to help avoid incorporating any air in the coating.

Application Conditions
Substrate Temperature 2 - 30°C
Note: Use squeegee to spread the coating and then back roll it to achieve proper coverage rate.

Relative Humidity up to 90 %
In case of application at lower temperature, Do NOT store the material in cold conditions as it will affect the material viscosity and flow. Make sure material are kept at specified storage condition prior to application.

Category Guide

FeRFA Category : 2

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 RSL/Sherwin-Williams.

Abrasion Resistance Taber Abrader- ASTM D4060	60mg/1000 cycle
Temperature Resistance	Tolerant of sustained temperatures of up to 70°C
Chemical Resistance	Very Good. Consult RSL/ Sherwin-Williams for further details
VOC	<12 g/l Calculation based on a full mixed unit
Life Expectancy	1-3 years depending on applied thickness and subjected to traffic according to FeRFA classification. RSL/Sherwin-Williams terms and conditions will apply.

Maintenance and Cleaning

RSL/Sherwin-Williams recommend that **Elladur™ SF QS Clear** 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 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 RSL/Sherwin-Williams Guide to Cleaning of Resin Floors

Health and Safety

Elladur™ QS Clear 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 Resin Surfaces Limited or its agents is based on the information supplied by the purchaser. Resin Surfaces Limited 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.

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