Protective & Marine Coatings
PRODUCT DATA SHEET

ELLADUR™ SF

05/2023 Issue 7 – REF: ELLA

PRODUCT DESCRIPTION

Elladur™ SF is a coloured high-build, Polyaspartic/Polyurea type fast-cure floor coating system designed to provide a tough and durable gloss finish in a variety of thicknesses. Elladur™ SF is UV stable 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
- Tough with a degree of flexibility
- UV stable
- Ease of application
- High gloss finish
- Excellent adhesion
- Solvent free

RECOMMENDED USE

A wide range of industrial and commercial applications such as::

- Where high build UV stable coatings are required
- Areas where a fast return to service is required
- Medical Areas
- Decorative floor systems
- Excellent for all demarcation and walkways

PRODUCT DATA

Volume Solids: ~100%

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

Colours: Wide range of colours available, contact Sherwin-Williams for details

Finish: Gloss

Flash Point: N/A

Cleanser/Thinner: Do not thin
RS Polysolvent for cleaning only

Pack Size: 5.02 kg
Mixing Ratio: 4.5 parts base to 1 part hardener by weight only

Pack Weights: 4.10 kg base/0.92 kg hardener

Mixed Density: ~1.6 g/cm³

Shelf Life: 12 months (Base & Hardener)

Storage: Keep out of direct sunlight.
Store in a dry place, between 5°C - 30°C

Typical Properties at 20°C
Cure Times
Minimum recoating intervals: 2 to 3 hours or once surface has lost tackiness
Light Traffic: 4 to 5 hours
Full Traffic: 8 to 10 hours
Full Chemical Cure: 7 days

Pot Life: 25 to 30 minutes from mixing.
Pot life refers to the usable working life of the material following mixing and immediate application. If product is left in the container after mixing and not used, hazardous fumes may be released due to an exothermic reaction.

Typical Consumption:
0.3-0.8 kg/m² per mm thickness
The coverage rate will vary depending on the texture and porosity of the substrate, site conditions, film thickness and method of application.

System Thickness (Recommended): 200 to 500 µm

SURFACE PREPARATION

Concrete substrates must be sound with a minimum compressive strength of 25 N/mm², a minimum tensile strength of 1.5 N/mm² and a relative humidity at the surface of no more than 75%.

It is essential that all laitance, surface sealers and curing membranes and any surface contamination, such as oil, grease and dirt, existing coatings and loose material is removed by suitable mechanised equipment. Grinding or light contained shot-blasting to CSP 1-3, should be used for the thinner synthetic flooring types to ensure that the profile does not reflect in the finish. For detailed information, refer to ICRI Guideline No.310.2R-2013,

After surface preparation, all loose debris and dirt should be removed using vacuum equipment.

Weak concrete must be removed, and local repairs carried out.

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APPLICATION CONDITIONS

The recommended application temperatures of the areas should be kept between 15 - 30°C throughout the application and the curing period, otherwise this could have an adverse effect on the appearance and colour of the system. Surface temperature must be above 10°C. The substrate and uncured floor must be kept at least 3°C above the dew point to reduce the risk of condensation forming.

Applied coating should be protected from moisture during application and during the curing period. Exposure to moisture during this time can cause surface and colour variations.

RECOMMENDED SYSTEMS

Open and porous substrates may require priming.

Resuprime™ ST may be used as primer on dry substrates with less than 75% ERH reading.

Where the Relative Humidity of a substrate exceeds 75% ERH Resuprime™ MVT or Dampepox may be used, please contact Sherwin-Williams for a specification.

For further information please refer to recommended individual product data sheets.

MIXING AND APPLICATION

Mixing:
Materials should be pre-conditioned at 15°C to 25°C prior to use. Mix the entire contents of the base component with the hardener component using a low speed electric mixer (300 to 400 rpm) for 1 to 2 minutes until homogeneous.

Application:
The mixed unit should be applied immediately by roller, brush or squeegee with a consistent procedure. Floor areas should be cross rolled to ensure even application and to minimise roller marks.

TECHNICAL INFORMATION

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

FeRFA Category: Type 2

Temperature Resistance: Tolerant of temperatures up to 60°C

Abrasion Resistance: 144 mg loss per 1000 cycles
(ASTM D4060)

Bond Strength: >3 N/mm²
(BS EN 13892-8:2002)

Impact Resistance: Class II
(BS EN 1504-2:2004)

Flexural Strength: 20.1 N/mm²
(ISO 178:2010)

Tensile Strength: 21 MPa
(BS EN ISO 527-2:2012)

Reaction to Fire: Bfl-s1
(EN 13501:2018)

WARRANTY

Any person or company using the product without first making further enquiries as to the suitability of the product for the intended purpose does so at their own risk, and Sherwin-Williams can accept no liability for the performance of the product, or for any loss or damage arising out of such use.

The information detailed in this datasheet is liable to modification from time to time in the light of experience and normal product development, and before using, customers are advised to check with Sherwin-Williams, quoting the reference number, to ensure that they possess the latest issue.

DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

HEALTH AND SAFETY

Consult Safety Datasheet for information on safe storage and handling of this product.

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