New Guard Coatings Group

A global reputation to protect.

The information herewith is given with the best of New Guard Coatings Group knowledge.

Rights are reserved to change and update the data without notice.

This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

Protective & Marine Coatings
PRODUCT DATA SHEET

FASTOP™ TG ESD

05/2023 Issue 8 – REF: TGAS

PRODUCT DESCRIPTION

FasTop™ TG ESD is a static-dissipative polyurethane cement flooring screed system which is laid at 6 to 9 mm nominal thickness.

ADVANTAGES

- Static dissipative seamless matt finish
- High chemical resistance
- Hard wearing
- Slip resistant finish

RECOMMENDED USE

A wide range of industrial applications such as:

- Pharmaceutical and chemical plants
- Electrical industrial areas
- Food manufacturing areas
- Oil & gas facilities
- Industrial workshops

PRODUCT DATA

Volume Solids: ~100%

VOC: 9 g/l mixed

Colours: Black, Blue, Buff, Dark Grey, Mid Grey, Light Grey, Green, Marigold, Red

Finish: Matt finish

Flash Point: N/A

Cleanser/Thinner: Do not thin
Cleaning with RS Polysolvent only

Pack Size: 30 kg

Pack Weights: 2.68 kg coloured base, 2.22 kg hardener, 21.32 kg aggregate, 3.78 kg conductive aggregate

Mixing Ratio: As above packing weights

Mixed Density: ~2.00 g/cm^3

Shelf Life: 36 months (Base & Conductive Aggregate), 12 months (Hardener) & 6 months (Aggregate)

Storage: Keep out of direct sunlight. Store in a dry place, between 5°C- 30°C. Aggregates must be stored in a dry area to prevent contamination by moisture, as this will have a detrimental effect on the product.

Recommended Application Methods: Trowel.

Typical Properties at 20°C:
Cure Times
Recoating Intervals: N/A
Light Traffic: 12 to 16 hours
Full Traffic: 48 hours
Full Chemical Cure: 5 to 7 days

Pot Life: 15 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: 2.0kg/m^2 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.

SURFACE PREPERATION

Ensure surfaces to be coated are clean, dry and free from all surface contamination such as oil, grease and dirt to achieve satisfactory adhesion.

Anchorage grooves should be cut around the perimeter of the sub-floor and at terminations e.g. doorways, around drains and at joints, to a width and depth of approximately twice the thickness of the floor.

Concrete and polymer modified sand/cement screeds should be primed using Resuprime™ ESD. REFER TO DATA SHEET FOR FURTHER INFORMATION. For application onto other substrates, refer to Sherwin-Williams.

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APPLICATION CONDITIONS

The recommended application temperatures of the areas should be kept between 15 - 25°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.

PRIMING AND COPPER TAPE GRID

Open and porous substrates should be primed with one or two coats of primer to ensure a sealed surface. 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 may be used.

Once the primer is applied, copper tape strips are laid to form a grid system where the grids are no larger than 2m x 2m. The copper tape should be left exposed in areas to allow them to be earthed properly. Onto this a coat of Resuprime™ ESD is applied to provide a fully conductive layer under the FasTop™ TG ESD.

It is important to ensure that the cured primer meets any electrical resistance requirements before applying the FasTop™ TG ESD. Please contact Sherwin-Williams for a specification. For further information please refer to recommended individual product data sheets.

MIXING AND APPLICATION

Prior to mixing, the temperature of the four components must be between 15 and 25°C. Pre-mix the coloured base component before use. Add the FasTop™ TG ESD base to the mixing vessel then add the hardener component and mix using a low speed electric mixer (300 to 400 rpm) for approximately 30 seconds until homogeneous. Add the powder aggregate whilst mixing followed by the conductive aggregate, mixing for approximately 3 minutes until homogeneous scraping the sides of the mixing vessel until a uniform, lump-free mix is obtained.

Apply to pre-primed areas and level between battens as necessary with a steel float. Where ease of cleaning is very important rather than slip resistance, the final finish can be smoothed by back rolling with a short nap roller. A single pass with the weight of the roller is usually sufficient.

TECHNICAL INFORMATION

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

Category Guide: FeRFA Type 8

Compressive Strength: 48.1 N/mm²
(BS EN 13892-2:2002)

Flexural Strength: 5.7 N/mm²
(BS EN 13892-2:2002)

Tensile Strength: 4.2 N/mm²
(BS 6319-7:1985)

Abrasion Resistance: AR1 (Less than 100 microns wear)
(BS EN 13892-4:2002)

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

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

Electrical Resistance: $<10^9$ Ω
(BS EN 61340-4-1:2004+A1:2015)

Reaction to Fire: Bfl-s1
(EN 13501-1:2018)

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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BS EN 13813 SR B3.0-AR1-IR>4
Resin coating/screed for use inside buildings as per data sheet

Wear resistance	AR 1.0
Bond strength	B 3.0
Impact resistance	IR > 4

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