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# RYEFLOW 2000 ANTISTAT ANTI-STATIC FLOW APPLIED FLOORING

## DESCRIPTION

Ryeflow 2000 AntiStat is a medium to heavy duty epoxy resin in-situ floor finish designed to provide a smooth, seamless, hygienic surface with a high degree of resistance to chemicals, grease and solvent and also complying with anti-static requirements of BS2050 (hospital and industrial applications).

Ryeflow 2000 AntiStat is available in one grade providing typical film thickness of 2mm in a restricted range of colours.

Ryeflow 2000 AntiStat is produced from high quality formulated epoxy resins combined with specially grades conductive quartz aggregates in order to produce maximum chemical resistance, physical strength and electrically conductive qualities.

## Composition

Solvent free epoxy resin and specially graded conductive quartz aggregates.

## Appearance

Smooth gloss coloured finish.

## Durability

Ryeflow 2000 AntiStat exhibits a high order of abrasion resistance and is resilient to impact damage and minor movement/flexing.

## Thickness

Nominal 2mm.

## TYPICAL APPLICATIONS

Ryeflow 2000 AntiStat is ideal for use in areas subject to heavy wear, impact and abrasion which require additional protection from the build-up of static electrical charges.

This product is ideally suited for application within areas involving:-

- Electrical component design/manufacture
- Powder processing
- Explosive handling and storage
- Medical equipment storage and repair
- Hospital operating/sterile zones

## Anti-Static/Conductive Performance

The unique technology adopted within Ryeflow 2000 AntiStat ensures that the entire system remains electrically conductive both across the surface of the system and through the system to the earthing substrate.

Ryeflow 2000 AntiStat has been designed in compliance with BS2050 and meets the requirements specified for both hospital and industrial flooring products:-

Hospital	Between $5 \times 10^4$ and $2 \times 10^6$ ohms
Industrial	Between $5 \times 10^4$ and $10^8$ ohms

## Substrates

Ryeflow 2000 AntiStat adheres well to concrete and grano when utilising Ryeprime SF.

## Surface Preparation

To be assured of maximum adhesion and properties from Ryebrook resin products, the correct surface preparation is essential. Please refer to technical data sheet "Surface Preparation" reference TD102.

## Application Conditions

Ryeflow 2000 AntiStat is a free flowing liquid which increases in viscosity as the temperature lowers.

To ensure optimum surface finish, an ambient temperature above 10°C should be provided. The ideal application temperature is 25°C.

## Earthing Procedure

Providing the substrate has intimate contact with underlying ground, no additional earthing requirements will be needed.

However, in the instance of raised or insulated floor levels, a network of copper strip should be affixed to the blasted floor surface prior to priming and laying of the Ryeflow 2000 AntiStat systems. The copper strip network should finally be secured to a main earthing frame system.

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## Priming

Priming of prepared surfaces should be undertaken using Ryepriime AntiStat; please refer to technical data sheet TD005.

Ryepriime AntiStat should be applied by brush or roller at a spreading rate of 200g/m<sup>2</sup> and should be allowed to cure for a minimum of 16 hours at 20°C to provide a firm, tack-free surface prior to Ryeflow 2000 AntiStat being applied. (Maximum overcoating time at 20°C is 48 hours).

## Mixing

Ryeflow 2000 AntiStat is supplied as a three component product and is mixed within a rotary drum mixer unit. Thorough pre-mixing of the two liquid components is followed by gradual additional of the aggregate component. Final mixing should continue until a thoroughly wetted and homogeneous mixture is obtained.

## Application Technique

This product is laid in compliance with BS 8204-6 Type 5. Ryeflow 2000 AntiStat is spread over the pre-primed surface by means of a steel trowel to the required thickness using the coverage rate quoted below as guidance. The applied resin surface is then worked with a Ryebrook spiked roller for 2-3 minutes until an even level surface is produced.

## Coverage Rates (Nominal 2mm)

Ryepriime AntiStat - 220g/m<sup>2</sup>  
Ryeflow 2000 AntiStat - 3.2kg/m<sup>2</sup>

## SPECIFICATION DETAIL

- i) Ryepriime AntiStat applied at 220g/m<sup>2</sup>
- ii) Ryeflow 2000 AntiStat at a nominal 2mm (3.2kg/m<sup>2</sup>)

## Maintenance

Providing contamination is not allowed to build up, regular scrubbing and mopping maintain smooth Ryebrook floors satisfactorily. The floors may be polished back to the original gloss in exactly the same way as vinyl and lino.

## Cure Schedule @ 20°C

Usable life	30 minutes
Initial Set	8-10 hours
Foot Traffic	24 hours
Heavy Traffic	3-4 days
Full Chemical Resistance	10 days

## Chemical Resistance

Excellent chemical resistance. Please refer to technical data sheet reference TD112.

## Grades Available

FC. Please refer to technical data sheet reference TD111.

## Colours Available

Ryeflow 2000 AntiStat is available in the full range of Ryebrook colours; however due to the dark background colour of the conductive aggregate, only dark finished colours should be chosen: Green, red, mid grey and dark grey.

## TECHNICAL DATA

Compressive Strength	36N/mm <sup>2</sup>
Flexural Strength	30N/mm <sup>2</sup>
Slant Shear Bond Strength	29N/mm <sup>2</sup>
Mixed Density	1.65
Elastic Modulus	3kN/mm <sup>2</sup>
Surface Spread of Flame to BS476 Part 7	Class 2

## Health and Safety

Please read technical data sheet reference TD103 and specific health and safety data for this product provided in compliance with the requirements of EC Directive 91/155.

## Storage, Mixing & Application

The storage, mixing and application conditions can affect the quality of the finish produced. Please read technical data sheet reference TD104.

## Technical Advice

For further information on this or any other Ryebrook product, please contact our Technical Department on 01293 565500.