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Q/ANTISTAT EP SL

DESCRIPTION
Q/Antistat EPSL is a medium duty epoxy resin in-situ floor finish designed to provide a smooth, seamless, hygienic surface with good resistance to chemicals, greases and solvents and also complying with anti-static requirements of BS2050. (A.4.1) Q/Antistat EPSL. is available in one grade providing typical film thickness of 2—3mm in a restricted range of colours. Q/Antistat EPSL. is produced from high quality formulated epoxy resins combined with specially graded conductive quartz aggregates in order to produce excellent durability and electrically conductive qualities.

COMPOSITION
A solvent free, epoxy resin and specially graded conductive aggregates.

APPEARANCE
Smooth gloss coloured finish. Please note that to retain the gloss that regular polishing with a metallised conductive polish will be required. Otherwise the product will scratch down with use this is not detrimental to its performance. A high percentage of carbon in the form of graphite must be incorporated into the product to meet the health & safety criteria of conductivity. Carbon acts as a black pigment and can be dispersed to a lesser or greater extent depending on the mixing time and degree of sheer on site. It is common for shade differences to occur from unit to unit due to inconsistencies in on-site mixing and application techniques. This effect is more pronounced with lighter colours. Colour variation, colour banding and shading differences between units can occur and all parties must agree that this colour variation must be accepted due to overriding health & safety factors.

DURABILITY
Q/Antistat EPSL. exhibits a high order of abrasion resistance and is resilient to minor impact damage

THICKNESS
Nominal 2-3mm.

TYPICAL INSTALLATIONS
This system is to be applied in reference to BS2050 Page 3, Item 2 (Flooring for antistatic purposes) only, and not for explosive handling areas

ANTI-STATIC/CONDUCTIVE PERFORMANCE
The unique technology adopted within Q/Antistat EPSL. Ensures the entire system remains electrically conductive, both across the surface of the system and throughout the system to the earthing substrate. Q/Antistat EPSL. has been designed in compliance with BS2050(A.4.1.) and meets the requirements specified for industrial flooring applications.

SUBSTRATES
Concrete and grano when utilising Q/Antistat primer. Maximum moisture content of Substrate 5% or 75% Rh.

SURFACE PREPARATION
To be assured of maximum adhesion and properties from resin products the correct surface preparation is essential. Please refer to technical data sheet “Surface Preparation”.

APPLICATION CONDITION
Q/Antistat EPSL. is a liquid applied screed which increases in viscosity as the ambient temperature reduces and therefore becomes more difficult to apply. To ensure the optimum surface finish, an ambient temperature in the range of 15 to 30ºC should be provided. The ideal temperature for application is 20ºC. Please also note some of the conductive elements will be visible to a greater or lesser degree in the end finish this cannot be exactly controlled but will not affect its performance. It is imperative that consistent mix times are maintained throughout the installation as shading may occur due to the effects of the conductive elements within the mix.

COLOURS AVAILABLE
All standard colours excluding colours lighter than mid grey. However, dark colours are recommended for best visual results.

EARTHING PROCEDURE—(Conductive System)
Providing the substrate has intimate contact with underlying ground, no additional earthing requirements will be needed this would be a dissipative system .However in the instance of raised or insulated floor levels, or where a conductive system is required then a network of copper strips should be fixed to the blasted floor surface prior to priming and laying of the Q/Antistat EPSL system. The copper strip network may be finally secured to a main earthing frame system. Please note a Dissipative system does not require a copper grid or earthing. If in any doubt as to what is required always adopt the conductive system as the preferred option.

PRIMING
Q/Antistat primer should be applied by brush or roller at a typical spreading rate of 220g/m², ensuring the substrate is thoroughly wetted out. The primer should be well worked and then be allowed to dry for a minimum of 16 hours and maximum of 48 hours at 20°C prior to the application of the Q/Antistat EPSL. It is imperative that a uniform matt film of the primer is achieved, whilst uncured broadcast with Q/Antistat Scatter aggregate, any glossiness or patchiness a further coat should be applied.

MIXING
Q/Antistat EPSL is supplied as a two component product. Pre-mixing of the pigmented resin is recommended to ensure any light settlement is fully re-incorporated within the liquid to form a homogeneous material. The clear hardener component is then poured and fully drained into the resin container and the two liquids mixed until a homogeneous mix is achieved. It is imperative that consistent mixing times are observed due to the potential for shading between mixes as the conductive aggregates contained within are black.

APPLICATION TECHNIQUE
Q/Antistat EPSL is spread over the pre-primed surface by means of a steel trowel to the required thickness using the coverage rate stated below as guidance. The applied resin surface is then worked with a spiked roller for 2-3 minutes immediately after laying until an even, level surface is produced.

SPECIFICATION DETAIL
I) Q/Prime SF—150**g**/m²
II) Q/Antistat primer – 220g/m²
III) Q/Antistat EPSL at a nominal 2mm (3.6kg/m²) or 3mm (5.4kg/m²)

MAINTENANCE
Providing contamination is not allowed to build up, regular scrubbing and mopping maintain Puma floors satisfactorily.

CURE SCHEDULE
Usable Life at 20° C -30 mins
Initial set at 20° C -8-10 hours
Foot traffic at 20° C -24 hours
Heavy traffic at 20° C -3-4 days
Full chemical resistance -10 days

TECHNICAL DATA
Compressive strength (N/mm²) -36.0
Flexural strength (N/mm²) -30.0
Slant shear bond strength (N/mm²) -29.0
Mixed density -1.65
Elastic modulus (kN/mm²) -3.00
Surface spread of flame -class 2
BS 2050(A.4.1) 0.05—100 mega ohms

HEALTH AND SAFETY
Please read 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.