

INSTRUCTIONS FOR THE APPLICATION OF ELECTROGUARD A40 ACRYLIC FLOOR PAINT

Preparation of the surface

This is the most important part of any floor installation, a badly prepared floor surface will adversely affect the physical and electrical properties of any coating applied to it.

Concrete

Bare concrete is not normally an adequate surface for the application of floor paints, especially Static-Dissipative floor paints where the electrical properties can be affected. Ensure that the concrete is DRY (less than 5.5 on Protimeter Screed Scale or **less than 15% Moisture content**).

All concrete floors should be sealed with a Water Based Sealer/Primer (Edson Electronics Ltd can offer such a primer if required) to stabilise the concrete and to insulate against excessive conductivity, a major problem to static sensitive areas.

Before sealing the concrete it is advisable to prepare the surface using Mechanical Preparation or an STR machine in order to give an open, sandpaper like surface. All oil, grease and chemicals should be removed by washing with an alkaline detergent, and the floor allowed to dry thoroughly before sealing.

Apply the sealer/primer as the instructions dictate, and allow to hard dry. Do not exceed the recommended re-coat time.

Existing Floor Paint

Electroguard A40 has excellent adhesion properties and will adhere to most painted surfaces. If, however, the underlying paint surface is not sound then it will need to be removed. Loose paint should be removed and the floor surface treated as for bare concrete (see above).

Before coating the floor all grease and chemicals should be rinsed off using a detergent, and allowed to dry.

Earthing the Coating.

If the floor is required for grounding personnel then some means of connection to earth is necessary. Normally one grounding point is required for every 1000 ft² (111 m²) of flooring.

The most effective way of grounding is achieved by using adhesive backed copper tape. The connection to the floor is attained by fixing a length (10cm is enough) of tape to the floor surface, on top of the primer but before applying A40 at the edge of a wall. The tape is then run up the wall to connect with a grounding point and A40 paint then applied to the floor as described below. This is supplied by Edson FOC.

Grounding Points:

Steel Building Structures: These must first have an area of contact sanded to ensure that it is paint, rust and dirt free, and the tape attached using a screw.

Connection to Mains earth: The copper tape is run up the wall and into an Earth bonding box (this requires a qualified electrician to install).

An alternative method is to connect the copper tape to an earth-bonding plug placed in an appropriate socket by means of an earthing cord.

Applying the Paint.

Before continuing with the next step ensure that all personnel handling the product are made aware of the Material Safety Data Sheet.

- 1) Ensure first of all that the uncoated floor is grease, chemical and dust-free.
- 2) **Do not apply if the building temperature is below 10C**
- 3) Mark out areas that can be easily completed without stopping, i.e. 50 m² for a 5 litre unit. If the floor is to be completed over a number of sections mark off these areas with adhesive tape to ensure that they are straight edged.
- 4) Stir the contents **THOROUGHLY** (it is recommended that a drill paddle be used for this). **Ensure that there are no materials adhering to the bottom or sides of the can and that the colour is even. COLOURED PAINT (blue, red , green, dark grey) will need to be stirred for longer.**
- 5) Apply the paint evenly using a medium pile roller or airless spray gun, standard nozzle. (5 Litres is enough to cover approximately 50m² based on one coat). Continue until the desired area is covered. Do not try to spread the paint over a larger area than the coverage recommends.
- 6) Clean the equipment with warm soapy water.
- 7) Allow 8 hours drying time, depending on ambient temperature and humidity.
- 8) Repeat the procedure as above for the second coat. **Where Anti Slip is required add silica sand provided to paint required for second coat and mix thoroughly before use. (You can apply the sand to either the first or second coat, the choice is up to the contractor)**
- 9) Any remaining paint can be used at a future date. Please re-seal tin lid tightly.
- 10) Ideally, leave for 24-48 hours before walking over newly painted surface. This will prevent marking whilst the paint is still curing.

After Application is Complete

- 1) **General Maintenance:** Sweep or vacuum off any dirt from the surface. Cleaning can be done with a wet mop, a mild detergent may be used for stubborn stains. If a detergent is used the floor must be rinsed as any soap film left on the surface could create an insulative film.
- 2) **Operator Usage:** For complete protection personnel should be grounded to the floor by means of ESD Shoes or Heel Grounders

The coating should be suitable for walking upon after 24 hours. Full cure will be achieved after 3 days, and optimum electrical properties will be exhibited up to 7 days after application.

Edson Electronics Ltd. accepts no responsibility where these instructions have not been adhered to during application, or where extremes of temperature or humidity have impaired curing.