

## TECHNICAL DATA

### Static Dissipative Acrylic Floor Paint. Product code: 15001

- Water-based acrylic static dissipative floor coating
- A single pack acrylic paint designed for application in static sensitive areas.
- This material is water based with low odour and can be safely applied by maintenance personnel without specialist knowledge of flooring systems.
- Two coats are recommended for best results and should be applied over a sound, sealed floor, free from dirt, oil or any loose particles.
- It is strongly recommended that the paint is not applied directly over bare concrete.
- Where this occurs a water based primer should be first applied.

### PHYSICAL PROPERTIES:

- Coverage: 10m<sup>2</sup> /litre per coat (we recommend two thin coats – do not over apply)
- Typical thickness: 40 microns per coat
- Drying @ 20C: touch Dry 2 Hrs
- Re-coat at 8 Hrs
- Full cure 3 Days
- Pot life: 12 months
- VOC content: 60.5g / litre
- Mix ratio: ready mixed
- Thinner: We do NOT recommend thinning this paint
- Colour: choice of colours
- Pack Size: 5 litres
- Transportation: no hazard issues

### LIMITATIONS:

- Do not apply if temperature is below 10C. Moisture content of concrete surfaces should be less than 15%. Curing times are dependent on temperature, humidity and ventilation.

### ELECTRICAL PROPERTIES:

- Surface Resistance: 10<sup>5</sup> - 10<sup>8</sup> Ohms/Square
- Resistance to Ground: 10<sup>5</sup> - 10<sup>8</sup> Ohms
- Conforms to IEC 61340-5-1/2
- Charge Decay: Conforms to MILB81705C



## APPLICATION INSTRUCTIONS

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### 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 to stabilise the concrete.
- 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 per the instructions and allow to hard dry. Do not exceed the recommended re-coat time.

#### Existing Floor Paint:

- Static dissipative acrylic floor paint (15001) 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 111 m<sup>2</sup> 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 sufficient) of adhesive backed tape to the floor surface at the edge of a wall.
- The tape should be applied OVER the existing painted or newly primed/sealed surface and BEFORE the paint is applied.
- The tape is then run up the wall to connect with a grounding point, and the paint then applied to the floor as described below.

### 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 an 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.

### Paint Application:

- Before continuing with the next step, ensure that all personnel handling the product are made aware of the Material Safety Data Sheet.
- Ensure that the uncoated floor is grease, chemical and dust-free.
- Do not apply if the building temperature is below 10°C
- Mark out areas that can be easily completed without stopping, i.e. 50 m<sup>2</sup> 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.
- 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.
- Apply the paint evenly using a medium pile roller (5 Litres is enough to cover approximately 50m<sup>2</sup> 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.
- Clean the equipment with warm soapy water.
- Allow 8 hours drying time, depending on ambient temperature and humidity.
- 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)
- Any remaining paint can be used at a future date. Re-seal tin lid tightly.
- 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:**

- 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 detergent film left on the surface could potentially create an insulative layer.
- 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 three days, and optimum electrical properties will be exhibited up to seven days after application.

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

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