

TECHNICAL DATA

Static Dissipative Polyurethane Floor Paint. Product code: 15002

- Water-based PU static dissipative ESD floor paint
- A two-component polyurethane paint designed to protect against static generation.
- 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 be not applied over bare concrete. Where this occurs, a water based epoxy primer should be first applied.

PHYSICAL PROPERTIES:

- Coverage: 9m²/Litre per coat (we recommend 2 coats)
- Drying @ 20C: touch dry three hours
- Hard dry: 16 hoursFull cure: 3 days
- Pot life: 2 hours
- Mix ratio: Base/Activator supplied in correct ratio. Both parts must be FULLY used. Base four parts, activator one part
- Thinner: We do NOT recommend thinning this paint
- Colour: Grey RAL 7004
- Pack Size: 5 litres
- Volume Solids: Approx 35%
- Gloss Level: 20% to 30%
- Typical Thickness: 40 microns per coat. We recommend 2 thin coats, do not over apply
- VOC Content: 25gms/litre

LIMITATIONS:

 We advise against applying 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: 10⁵ -10⁸ Ohms/Square
- Resistance to Ground: 10⁵ -10⁸ 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 two pack, solvent free, water based, epoxy 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 polyurethane floor paint (15002) 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 by STR machine or shot blasting 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. To aid adhesion, the surface should then be
 sanded or buffed.





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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 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 adhesive backed copper 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. The tape must be in contact with bare steel.
- 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 first of all that the uncoated floor is grease, chemical and dust-free.
- It is advised not to apply if the temperature is below 10C. Ideally the temperature will be over 15°C
- Stir the contents of one of the BASE cans. Ensure that the contents of the can are thoroughly mixed and that there are no materials adhering to the bottom or sides of the can. This is very important.
- Add the contents of the activator can to the Base can and mix. Ensure that
 the two components are thoroughly mixed and that there is an even colour
 dispersion.
- Apply the paint evenly using a medium pile roller (5 Litres is enough to cover approximately 45m² 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 16 hours drying time, depending on ambient temperature and humidity.
- Repeat the procedure as above for the second coat.
- Where Anti Slip is required, add the aggregate sand provided to the paint required for second coat and mix thoroughly immediately before use. The aggregate will sink if left so please only add when about to apply. We advise no more than 1kg per 5 litre tin.
- Ideally, leave for 24-48 hours before walking over newly painted surface. This will prevent marking whilst the paint is still curing.
- The coating should be suitable for walking upon after 24 hours. Full cure will be achieved after 7 days, and optimum electrical properties will be exhibited up to 14 days after application.

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.

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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