

2 COMPONENT COATING FOR FLOORS 3823

A water base epoxy with hardener for floors



2 component coating for floors is a permanently conductive clear two pack water-based epoxy graphene paint. Water borne two pack epoxy system from high quality. It is very environmentally friendly, easy to clean with equipment using water and it provides the benefit of a low odour.

You can find the 3823 in different applications such as floor coatings (particularly where the previous coating is unknown as solvent will attack many coatings causing them to lift).

TYPICAL INSTALLATIONS INCLUDE:

- Electrical industry
- Petrol/ Chemical industries
- Water treatment plants
- Hospitals
- ATEX Environments e.g oil rigs, sewers, mines
- And many other industrial uses

The 3823- 2 component coating is showing excellent mechanical properties that can withstand wear and impact, and is also resistant to a wide range of chemicals, including:

- Fats
- Oils
- Acids
- Solvents
- Alkalis

The electrical properties of the paint are permanent and independent of humidity, additionally a conductive underlay is not required for grounding the system. The 3823 provides the option of directly grounding racking/shelving used for storing ESD'S (electrostatic sensitive devices) to the floor.

For personnel grounding applications the product is best used in conjunction with suitable electrostatic dissipative footwear.

TECHNICAL DATA

Solids	approximately 36-38%
Flash point	N/A
Specific gravity	1.35 g/cm3
Viscosity	2.3 poise ICI cone and plate
Storage	6 months in original sealed containers
Pot life	1 hour at 200C
PH	8.0
Firm dry	16 hours
Hard dry	3 days
2 pack mixing ratio	4:1 (4 parts water base epoxy to 1 part hardener)
Cleaning	Use warm soapy water before cure complete
Thinning	If required thin with approx. 10-20% water (thin after mixing the 2 parts)
Colour	Light grey
Surface resistance	<106Ω per square at 2 coats

GROUNDING

Grounding is best executed by means of non-oxidising metal plate bolted to the floor. Contact resistance is significantly reduced if a conductive rubber pad is used in addition to the metal plate top. The grounding plate can then be led to earth via a bonding point and ground cord.

MAINTENANCE

The painted floor should be kept clean to avoid soiling shielding the electrostatic conductive properties of the floor, therefore a regular cleaning regime should be implemented using non abrasive and non aggressive techniques. Regular checks of the grounding arrangements should also be carried out.

Preparation

As with all paints it is suggested that a small trial be performed before the complete area is coated and when dry tested for adhesion, appearance and resistance.

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It is recommended that a sealer is used on floors before coating with 3823 and that these following preparations are undertaken:

New concrete : in the case of newly laid concrete it is important that the concrete has been allowed to dry out for a minimum of 28 days before considering applying a concrete sealer, moisture content should be below 6%.

The main problem with new floors is the weak surface layer (laitence). This water rich top layer forms during the drying out period and is mechanically weak. The laitence has a chemical composition different to the rest of the concrete. The surface should therefore be acid etched to remove the laitence.

Old concrete : remove all oils, grease, dirt etc together with the removal of old or failed coating to ensure a sound base. In order to ensure good adhesion and long-term performance of the coating it is essential that the correct type or surface preparation is carried out.

The following are recognized methods:

- Abrasive blast cleaning- this should always be the first choice for heavy duty systems, if conditions allow.
- Scarifying (or scabbling)- rotating wheels and brushes scour the concrete surface.
- Acid etching- this method is most suited for use on new concrete floors and is used to remove laitence, it will not remove old paint, oil or grease. It should only be used where sufficient drainage exists to allow the water and acid solution to be removed safely.

ORDER EXAMPLE

Series

3823