JCC PRODUCT DATA SHEET

JAZECOAT CONDUCTIVE-AS

Epoxy Resin Static Conductive Coating with resistance between 5 x 10^4 and 1 x 10^6 ohms protective coating for wall and floor.

Product Description

JAZECOAT CONDUCTIVE-AS is 2-component, solvent-free (100 % solid), non-toxic, epoxy resin-based coating with controlled conductive properties. The system comprises of an epoxy primer, conductive epoxy undercoat and a 200 microns thick epoxy topcoat. It will provide after application and curing a durable protective, sealing & decorative film with an excellent abrasion & chemical resistance that is easy to-clean surface finish. It is based on selected epoxy resin & special hardener that resist amine blush. The product is available in standard colours or any colour upon request.

Uses

JAZECOAT CONDUCTIVE-AS is suitable for use in areas where a static conductive with a static conductive resistance between 5x10^4 and 1x10^6 ohms is required as a measure to control static electricity.

- Electric stations, houses and rooms power plants, computer and operating rooms.
- Places where controlled conductive properties are required.
- Water tanks & reservoirs and silos.
- Food processing areas.
- Concrete & steel pipes
- Dairies and kitchens
- Storage tanks.
- Laboratories and clean rooms
- Sewage works
- Water treatment plants.

Advantages

- Static Control provides static electricity with an electric passage to earth.
- Easy to apply by suitable brush or roller.
- Solvent-free (100 % Solid), odourless.
- Non-toxic, highly durable and corrosion resistance.
- Excellent abrasion and impact resistance.
- Can be applied on dry and damp concrete surfaces.
- Hygienic, impervious.
- Provides easily cleaned surfaces.
- Excellent adhesion to sound concrete & masonry substrates.
- High chemical resistant to most common chemical reagents especially in sewage works.
- Formulated to be suitable for the Middle East Climates.

Standards

JAZECOAT CONDUCTIVE-AS complies with ASTM C- 881, Type III, Grade 2, and Class B & C

Technical Properties

Appearance	Pigmented free flowing liquid
Specific Gravity @20 °C	1.4
Electric Surface Resistance	5 x 10^4 to 1 x 10^6 ohms
Solid Content	100 % by weight
Application temperature	5 – 45 °C.
Time between recoating	12 – 24-hours.
Pot-life @ 25 °C	60 minutes.
Full cure @ 25 °C	7-days
Wet & dry film thickness	200 microns per coat
Abrasion resistance	70 mg as per as Taber Abrasive, 1000 grams / 1000 revolution.
Bond Strength	2.5 N / mm^2.

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Chemical Resistance JAZECOAT CONDUCTIVE-AS has been tested for chemical resistance to a comprehensive range of industrial & domestic chemicals. After constant immersion for 90-days @ 35 °C in accordance with ASTM D-2240 (Shore D hardness), the results are:

Acids			Alkalis		
Hydrochloric	20 %	Excellent	Sodium hydroxide	20 %	Excellent
Sulfuric	20 %	Excellent	Sodium Carbonate	20 %	excellent
Nitric	20 %	Good	Ammonia	10 %	Excellent
Acetic	10 %	Excellent	Potassium Hydroxide	20 %	Excellent
Lactic	10 %	Excellent	Sodium Hypochlorite	15 %	Excellent
Citric	10 %	Excellent			

Solvents & Oils			
Ethanol	Excellent	Soya Bean Oil	Excellent
Ethyl Glycol	Excellent	Vegetable Oil	Excellent
White spirit	Excellent	Detergent	Excellent
Petrol & Diesel Oil	Excellent	Fat	Excellent
Coconut oil	Excellent	Milk	Excellent
Soya Bean Oil	Excellent	Linseed Oil	Excellent
Silicates	Excellent	Water	Excellent

For Specific Chemical reagent, please ask for technical support.

Coverage About 5 m^2 per Kg per 200 microns. Two coats are recommended.

Guide for Applications

Surface Preparation

All surfaces shall be sound, clean free from dust, grease & oils, curing agents & mould releasing agents or other materials may affect the bond of the product and the substrates. Steel or metal surfaces should be free from rust, scale or other contaminants.

Priming

JAZEPRIME- AS can be used prior to the application (See its data Sheet).

Mixing

Stir each component of JAZECOAT CONDUCTIVE-AS well before mixing. Pour Component A into the Component B and mix well for 2 -5minutes until uniform consistency & colour is achieved.

Application

Apply the mixed materials of JAZECOAT CONDUCTIVE-AS onto prepared & primed substrates using suitable brush, roller or airless spray method for large areas

Apply the second coat after application of the first coat with 12 hours.

Packaging

JAZECOAT CONDUCTIVE-AS is supplied in 5-Kg Kits.

Storage & Shelf-life

JAZECOAT CONDUCTIVE-AS shall be stored in normal conditions away from any extreme temperatures, Shelf – life is 24 months if stored properly.

Health & Safety

- JAZECOAT CONDUCTIVE-AS non-toxic, non-corrosive, and non-dangerous.
- For Ecology: Do not dispose directly to water or soil. Mix Component A with Component B and wait till hardening, then burry in landfill in accordance with the local regulations.
- Splashes on skin will be washed with water and soap.