JCC PRODUCT DATA SHEET

JAZECOAT – EPHC

2-Component, Non-toxic, Solvent-free, Highly Chemical & Impact Resistant Epoxy Resin-based / Polysulfide Flexible Protective Coating

Product Description

JAZECOAT – EPHC is 2-component, solvent-free (100% solid), non-toxic, epoxy resin-based modified with polysulfide resins, high- build, high performance, flexible, highly chemical resistant protective coating. It will provide after application and curing a durable protective, sealing & decorative film with an excellent impact & chemical resistance that is easy to-clean surface finish. It is based on selected epoxy and polysulfide resins & special hardener that resist amine blush. The product is available in standard colours or any colour upon request.

Uses

JAZECOAT– EPHC is formulated to provide continuous protective coating having highly chemical & impact resistant properties. It formulated for lining and waterproofing water retaining structures and water treatment plants, sewage concrete and metal pipes. It suitable for areas where thick film is required such as:

- Water tanks & reservoirs and silos.
- Food processing areas.
- Concrete & steel pipes
- Oil refineries.
- Paper mils.
- Laboratories and abattoirs.
- Sewage works
- Water treatment plants.
- Power Stations
- Garages and hangars

Advantages

- 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.
- Flexible and UV stable.
- Excellent adhesion to sound concrete & masonry substrates.
- Highly chemical resistant to most common chemical reagents in sewage works.
- Can be used with glass fiber to provide more mechanical properties.
- Formulated to be suitable for the Middle East Climates.

Standards

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

Technical Properties

Appearance	Pigmented free flowing liquid
Specific Gravity @20 °C	1.20 ± 0.05
Volume Solids	100 % by weight
Application Service temperature	5 – 35 °C.
Time between recoating	12 – 24-hours.
Pot-life @ 25 °C	70 minutes.
Full cure @ 25 °C	7 Days

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Tensile Strength @ 23 °C	10.2 MPa
Elongation at Break (ASTM D 412)	**64%**
Tear Strength (ASTM D 1004)	**13 N/mm^2**
Hardness (ASTM D 2240)	**87 Shore D**
Wet & dry film thickness	200 microns per coat
Bond Strength	4 N / mm^2.
Water vapour Transmission Rate	**1.17 g/m^2/day**

Chemical Resistance

JAZECOAT – EP150 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	25 %	Excellent	Sodium hydroxide	25 %	Excellent
Sulfuric	25 %	Excellent	Sodium Carbonate	25 %	excellent
Nitric	25 %	Good	Ammonia	10 %	Excellent
Acetic	10 %	Excellent	Potassium Hydroxide	25 %	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
Cotton Seed Oil		Excellent	Pine Oil		Excellent
Soya Bean Oil		Excellent	Linseed Oil		Excellent
Silicates		Excellent	Water		Excellent

For Specific Chemical reagent, please ask for technical support.

Coverage About 6 m^2 per Kg per 150 microns. Two coats are recommended.

Guidelines 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

EAMIPRIME- EP10 can be used prior to the application (See its data Sheet).

Mixing

Stir each component of JAZECOAT –EPHC 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–EPHC 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 – EPHC is supplied in 5-Kg Kits.

Storage & Shelf-life

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

Health & Safety

- JAZECOAT – EPHC 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.