JOFACRETE TC

Polyurethane Cement Topcoat

DESCRIPTION

JofaCrete TC is a coloured polyurethane cement topcoat designed to provide a seamless, matt and hygienic finish with enhanced chemical and abrasion resistance. Applied as a protective layer over JofaCrete flooring systems or directly onto concrete, it reduces porosity, improves cleanability and refreshes worn surfaces while maintaining a durable, slip resistant texture.

The system incorporates an **antimicrobial additive tested to ISO 22196:2011**, providing long lasting protection in hygienically critical areas such as food and beverage processing, pharmaceutical facilities and chemical industries. With excellent resistance to chemicals, abrasion and thermal shock, JofaCrete TC extends the service life and performance of the underlying substrate or flooring system.

Features & Benefits

- **Effective coating and sealer**
- **Easy application**
- **Seamless hygienic finish**
- **Non tainting**
- **Matt finish**
- **Hygiene protection**

Packaging Kit

3.5 kg and 8 kg unit consisting of the following components:

Kit size	3.5 kg	8.0 kg
Part A (Resin)	1.0 kg	2.3 kg
Part B (Hardener)	1.0 kg	2.3 kg
Part C (Aggregate)	1.3 kg	3.0 kg
Pigment Pack	0.2 kg	0.4 kg

Coverage

Approx. 0.28 kg/m² at 200 microns thickness
3.5 kg will cover 12.5m² at 200 microns thickness.
8 kg will cover 28.6m² at 200 microns thickness.

The coverage figures provided are theoretical and based on application to a smooth, non-porous surface under ideal conditions. Actual coverage may vary depending on factors such as substrate porosity, surface texture, application method, and environmental conditions.

When applied to porous or textured surfaces, the product may be absorbed unevenly, leading to higher material consumption. As a guideline, when applying over a base coat that has been fully seeded with aggregate, coverage is expected to be around 1 kg/m².

Environmental Conditions

JofaCrete TC should be applied only when both air and substrate temperatures are within 10 °C and 30 °C, and the substrate remains at least 3 °C above dew point. Relative humidity during application and early curing must not exceed 85 %. The working area should be kept well ventilated to avoid condensation and ensure an even cure.

Installations outside of these parameters may affect curing time, surface appearance and long term performance. For concrete bases in direct contact with the ground, a damp proof membrane should be incorporated into the slab design in accordance with CP102 Code of Practice for Protection of Buildings Against Water from the Ground.

Substrate Requirements

Concrete substrates must be structurally sound with a minimum compressive strength of 25 N/mm² and a tensile strength greater than 1.5 N/mm². Surfaces must be clean, dry and free from laitance, dust, grease, curing agents or other contaminants. Mechanical preparation, such as diamond grinding or shot blasting, is required to provide a suitably keyed, open textured surface.

Moisture content should always be checked prior to installation. Substrates must not exceed 90 % RH and must be free from rising damp or groundwater pressure.

Mixing

Before use, ensure all components are conditioned to a temperature between 15 °C and 25 °C. Mixing should be carried out using a low speed electric drill with a suitable paddle (300–400 rpm) or a forced action mixer. Pour Part A (Resin) into a clean mixing vessel and add the Pigment Pack, mixing for approximately 1 minute until uniform. Add Part B (Hardener) and continue mixing for a further 1–2 minutes until fully homogeneous. Finally, slowly incorporate Part C (Filler) and mix for 2-3 minutes until a consistent, smooth blend is obtained.

The prepared material must be applied immediately after mixing to ensure optimum workability and performance.

Product Application

Apply **JofaCrete TC** to the specified thickness using a medium pile roller or brush. The material should be worked thoroughly into the substrate to achieve an even and consistent finish, avoiding any pooling or uneven areas. In some cases, a second coat may be required to ensure the surface is completely sealed and uniform.

Chemical Resistance

JofaCrete TC offers outstanding resistance to organic and inorganic acids, alkalis, solvents, oils, fats and cleaning chemicals commonly used in food, beverage and pharmaceutical production. For detailed chemical resistance data, please contact the Technical Department.

Appearance

JofaCrete TC provides a seamless, matt surface. It is available in a range of standard colours.

Product Confines

JofaCrete TC should only be applied when air and substrate temperatures are within the recommended range and at least 3 °C above the dew point. Application must not proceed if atmospheric relative humidity exceeds 90 % or if the substrate temperature is below 10 °C during application or curing. Such conditions may adversely affect curing and surface appearance. Minor colour variation may occur under UV exposure without affecting performance.

Cleaning

JofaCrete TC can be maintained using standard food factory cleaning methods, including power washing, rotary scrubbers and floor scrubber dryers with appropriate cleaning chemicals. A regular cleaning regime is recommended to preserve slip resistance, appearance and service life. After using detergents or chemicals, all areas should be rinsed thoroughly with clean water.

Health & Safety

Refer to the Safety Data Sheet (SDS) before use. Applicators must wear protective gloves, goggles and suitable respiratory protection when working in confined or poorly ventilated areas. Avoid contact with skin and eyes.

Disposal of Containers

Empty containers must be handled with the same care as full ones and treated as hazardous waste. Disposal should be carried out through an authorised waste management contractor in accordance with local regulations.

Any remaining Part A and B should be mixed together and allowed to cure before disposal.

Additional Information

Jofa Resins endeavours to ensure that all technical information provided is accurate and up to date. The data is based on tests, applications, and our current knowledge and experience. However, it does not constitute a warranty, as the performance of the products depends on substrate conditions, site circumstances and the actions of the installation team, all of which are beyond our control even when our recommendations or specifications are followed.

Jofa Resins products are guaranteed only against defects in materials and manufacturing, and are supplied in accordance with our Standard Terms and Conditions of Sale, available on request.

For further assistance, please contact the Jofa Resins Technical Department.

TECHNICAL INFORMATION

Shelf Life	**Part A (Resin) & Part B (Hardener):** 12 months. **Part C (Aggregate)**: 6 months, when stored in unopened containers under proper conditions.
Pot Life Temp 20°C	10 to 15 Minutes
Curing Schedule 20°C	**Light Traffic:** 24 hours | **Full Traffic:** 48 hours | **Full Chemical Cure:** 7 Days
Temperature Resistance	Up to 70°C
FeRFA Floor Guide	Type 3
Storage	Keep in a dry environment with temperatures ranging from 15°C to 30°C. To prevent moisture contamination, aggregates should also be stored in a dry location, as exposure to moisture can adversely affect the product.
Impact Resistance EN ISO 6272	>5 Nm
Fire Classification EN 13501-1	B_{fl}-s1
Adhesion Strength EN 13892-8	>2.0 N/mm²

The above values, based on laboratory tests and our practical experience with this product, represent typical properties measured under standard laboratory conditions of 20 °C and 50 % relative humidity.

JOFA Resins | Version 1.0 March 2025
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