JOFACRETE SL-5

Polyurethane Cement Self-Smoothing

DESCRIPTION

JofaCrete SL-5 is a heavy duty polyurethane cement self-smoothing floor finish for environments requiring a seamless, hygienic, and durable surface. Applied at a nominal thickness of 5 mm using a rake and spiked roller, it forms a smooth matt finish suitable for dry process areas where ease of cleaning and resistance to wear are critical.

The system incorporates **an antimicrobial additive tested in accordance with ISO 22196:2011** and provides excellent resistance to chemicals, abrasion, and hot water, making it ideal for food and beverage facilities, pharmaceuticals, and light industrial manufacturing.

Features & Benefits

- **Self-smoothing for rapid installation**
- **Excellent chemical resistance**
- **Good temperatures resistance**
- **High abrasion and impact resistance**
- **Seamless hygienic matt finish**
- **Non tainting formulation**
- **Good slip resistance in dry environments**

Packaging Kit

20 kg unit consisting of the following components:

Part A (Resin): 2.30 kg
Part B (Hardener): 2.30 kg
Part C (Aggregate): 15.00 kg
Pigment Pack: 0.40 kg

Coverage

Approx. 2 kg/m² per mm of thickness.
20 kg will cover 2m² at 5mm thickness

Coverage figures provided are theoretical. Practical coverage rates may vary due to application factors such as site conditions, surface profile, and substrate porosity.

Environmental Conditions

JofaCrete SL-5 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.

Anchor channels, typically 10 mm deep and 10 mm wide, must be cut around the perimeter, slab joints, upstands, drains and doorways. All debris should be completely removed before proceeding with the application.

Priming Requirements

JofaCrete Primer must be applied to ensure full substrate penetration and a uniform coat without puddling. For anchor joints, primer should be applied with a brush, taking care not to fill the channels. On highly absorbent substrates, a second coat may be required to achieve complete sealing.

Refer to the Technical Data Sheets of the respective products for detailed information on application conditions, drying times and safety measures.

Mixing

Before use, ensure all materials are preconditioned to a temperature between 15 °C and 25 °C. Mixing should be carried out in a rotary drum mixer or a suitable forced action mixer. First, pour Part A (Resin) into the vessel and add the Pigment Pack, mixing for approximately 1 minute. Next, add Part B (Hardener) and continue mixing for 1–2 minutes until a homogeneous blend is obtained. Finally, introduce Part C (Filler) steadily and mix for a further 2–3 minutes to achieve a consistent, homogeneous mass.

The mixed material should be applied immediately after mixing to avoid loss of workability and to ensure optimum performance.

Product Application

Apply the mixed product to the specified thickness using a rake or steel float. Immediately roll with a spiked roller to release entrapped air and achieve a level surface. Do not re-roll once setting has commenced. Ensure anchor grooves are fully wetted out during application.

Chemical Resistance

JofaCrete SL-5 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 SL-5 provides a seamless, matt surface. It is available in a range of standard colours.

Product Confines

JofaCrete SL-5 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 SL-5 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	Resistant to hot water
FeRFA Floor Guide	Type 7
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.
Compressive Strength EN 13892-2	>40 N/mm²
Flexural Strength EN 13892-2	>14 N/mm²
Impact Resistance EN ISO 6272	10 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.

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