JOFACRETE RG

Polyurethane Cement Render

DESCRIPTION

JofaCrete RG is a polyurethane cement render designed for both vertical and horizontal surfaces in aggressive environments. Applied at a thickness of 4 to 9 mm, it provides a durable, seamless, matt finish with outstanding resistance to abrasion, impact, and a wide range of chemicals.

The system incorporates an **antimicrobial additive evaluated in accordance with ISO 22196:2011**, ensuring enhanced hygiene performance. This makes it particularly suitable for food and beverage processing plants, pharmaceutical facilities, and other industries with strict sanitary requirements.

Features & Benefits

- **Hygienic, seamless finish for easy cleaning**
- **Excellent chemical resistance**
- **High resistance to abrasion and impact**
- **Suitable for vertical and horizontal applications**
- **Non-tainting formulation**
- **Durable matt textured appearance**

Packaging Kit

12.40 kg unit consisting of the following components:

Part A (Resin): 1.00 kg
Part B (Hardener): 1.00 kg
Part C (Aggregate): 10.00 kg
Pigment Pack: 0.40 kg

Coverage

Approx. 2 kg will form 1 m² at 1mm thickness
12.4 kg will cover 1.55m² at 4mm 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 MT 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 should be cut at the top of vertical areas, along slab joints, upstands, drains, and doorways. All debris must be removed prior to application.

Priming Requirements

Apply **EPT-115 Epoxy Tack Primer** using a brush, ensuring full penetration and a uniform coating without puddling. **JofaCrete RG** must be applied directly onto the primer as soon as it becomes tacky, in order to form the required coving or render profile.

For anchor joints, apply the primer carefully with a brush, taking care not to fill the channels. The mortar must always be installed while the primer remains tacky, as once cured it will no longer provide an effective bond.

Refer to the respective Technical Data Sheets for further details on application conditions, overcoating 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 (Aggregate/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

JofaCrete RG must be applied at the specified thickness using a steel trowel or coving tool, ensuring the mortar is well compacted and worked to achieve a continuous and uniform render. Particular attention must be given to anchor channels and toe-ins, which must be fully wetted with primer before placing the material to guarantee complete adhesion.

Chemical Resistance

JofaCrete RG 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 RG provides a seamless, matt surface with a slip resistant texture. It is available in a range of standard colours.

Product Confines

JofaCrete RG 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 RG 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	Excellent
FeRFA Floor Guide	Type 6
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
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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