WB-120 ESD

Water-based Conductive Primer

DESCRIPTION

WB-120 ESD is A two pack, water-based epoxy conductive primer for use within anti-static and electrostatic dissipative (ESD) flooring systems, providing excellent adhesion to suitably prepared substrates.

It forms a uniform conductive layer to enable the controlled dissipation of static electricity and supports the consistent performance of subsequent ESD finishes.

Features & Benefits

- **Provides a uniform conductive layer for effective static control**
- **Excellent adhesion to prepared substrates**
- **Water-based, low odour formulation**
- **Promotes intercoat adhesion within ESD systems**
- **Low VOC content**
- **Easy roller or brush application**

Packaging Kit

WB-120 ESD is supplied in pre-weighed units to ensure correct mixing ratios:

10 kg unit (Part A + Part B)

Coverage

Typical consumption is **0.12–0.15 kg/m² per coat.**
A 10 kg unit will cover approximately 67–84 m² per coat.

Coverage may vary depending on substrate porosity, surface profile and application method.

Environmental Conditions

Application should take place between 10 °C and 30 °C with substrate temperature at least 3 °C above the dew point. Ambient relative humidity should ideally be below 75 % during application and early curing. Adequate ventilation is required to ensure consistent drying and curing.

Installations outside of these parameters may affect drying 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 must have a compressive strength of at least 25 N/mm² and a tensile strength greater than 1.5 N/mm². Substrates must be dry, with a maximum relative humidity of 75 % (measured according to BS 8203). Surfaces must be clean, sound and free from laitance, oil, grease, dust, curing agents and loose particles. Mechanical preparation such as vacuum shot blasting or diamond grinding is recommended.

Mixing

All components should be conditioned to 15 °C – 25 °C prior to use. Part A (Resin) is poured into a clean container and Part B (Hardener) is added. The two components are mixed with a slow speed drill (300–400 rpm) for at least 2 minutes until homogeneous. The material must be applied immediately after mixing.

Product Application

WB-120 ESD is applied by roller, brush or squeegee in a thin even coat. To ensure complete coverage, work the primer well into the surface.

Earthing

To achieve effective electrical performance, individual floor sections should be electrically continuous, either by linking adjacent slabs or by providing a direct connection to a suitable earth point. Copper tape, or an equivalent conductive medium, should be installed to ensure continuity across the floor area; as a general guideline, it should be applied at centres not exceeding 4 metres, ensuring that no point within the floor is more than 2 metres from a conductive pathway. All earthing connections must be made to a verified building earth and carried out in accordance with relevant standards by a suitably qualified electrician.

Product Confines

WB-120 ESD should only be applied when relative humidity is below 80 % and substrate temperature is at least 3 °C above the dew point. It is intended for use as a primer and should always be overcoated with a suitable epoxy or polyurethane ESD system.

Cleaning

Tools and equipment should be cleaned immediately after use with JofaSolvent, the recommended cleaning agent for epoxy products. Once cured, residues can only be removed by mechanical means.

Health & Safety

Refer to the Safety Data Sheet (SDS) before use. Applicators must wear appropriate PPE including chemical resistant gloves, safety glasses and respiratory protection in poorly ventilated areas.

Disposal of Containers

Empty containers must be treated with the same precautions as full ones and disposed of via an authorised hazardous waste contractor.

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

Additional Information

Jofa Resins endeavour to ensure that all product guidance provided is accurate and correct. Information given by or on behalf of Jofa Resins is based on tests and installations and on our current knowledge and experience. It implies no warranty or guarantee arising from the use of its products as the substrate and site conditions and the actions of any installation team involved in product application is beyond our control. Whether or not in accordance with any advice, recommendation, specification, or information given by Jofa Resins.

Jofa Resins products are guaranteed against defective materials and manufacture and are sold subject to our standard terms and conditions of sale, copies which can be obtained upon request.

Please contact the Jofa Resins Technical Department for further assistance.

TECHNICAL INFORMATION

Shelf Life	12 Months when stored in unopened containers under proper conditions.
Pot Life Temp 20°C	25 to 30 Minutes
Curing Schedule 20°C	**Overcoating:** 6–8 h • **Light traffic:** 24 h • **Full cure**: 7 days
FeRFA Floor Guide	Type 2
Storage	This Product must be stored off the ground in original packaging, unopened and un-damaged. The ambient conditions must be dry and between 5°C and 25°C with no direct sunlight. Protect from frost.
Temperature Resistance	Up to 60 °C
Fire Classification EN 13501-1	B_{fl}-s1
Adhesion Strength EN 13892-8	>2.5 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 (July 2025)
All rights reserved © 2025