ErgoFlexi 50

Self Smoothing semi-Flexible Polyurethane

DESCRIPTION

ErgoFlexi 50 is a two pack, solvent free, self smoothing semi-flexible polyurethane resin designed for decorative flooring in commercial, educational, healthcare and retail environments. Its elastic-modified formulation combines the seamless appearance and design freedom of decorative resin flooring.

ErgoFlexi 50 is UV stable, maintaining its colour and appearance in areas exposed to natural daylight. The cured membrane accommodates minor substrate movement while providing a firm, comfortable walking surface, and its seamless, joint-free finish is hygienic and easy to clean. Available in a wide range of colours, ErgoFlexi 50 is finished with a matt or satin PolyEco topcoat to provide the required wear and stain resistance.

Features & Benefits

- **Comfortable and warm underfoot**
- **Seamless and joint-free**
- **UV stable**
- **Flexible and crack bridging**
- **Wide colour range**
- **Durable resin finish**
- **Fast, seamless installation**
- **Easy to clean and maintain**
- **Solvent free, low odour**

Packaging Kit

ErgoFlexi 50 is supplied in pre-weighed units to ensure correct mixing ratios:
10 kg unit (7.8kg Part A + 2.2kg Part B)
25 kg unit (19.5kg Part A + 5.5kg Part B)

Coverage

Typical consumption is **3 kg/m² @ 2 mm thickness.**
A 10 kg kit will cover approximately 3.3 m².
A 25 kg kit will cover approximately 8.3 m².

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 not exceed 75 % during application and for the first 48 hours of curing. Adequate ventilation is required to promote uniform curing.

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 achieve a compressive strength of at least 25 N/mm² and a tensile strength above 1.5 N/mm². Substrates must be dry (maximum 75 % RH, unless a moisture tolerant primer is used), clean, sound and free from laitance, dust, oils, grease, curing agents or contaminants. Mechanical preparation such as shot blasting or grinding is recommended.

Priming Requirements

ErgoFlexi 50 should always be applied over a primer to ensure full adhesion:

- Dry substrates (<75 % RH): apply **EPR-100 Solvent Free Epoxy Primer.**
- Damp substrates (>75 % RH): apply **DPM-250 Flexible Epoxy Damp Proof Membrane.**

Highly porous surfaces may require two primer coats.

Mixing

All components should be conditioned to 15 °C – 25 °C before use. Part A (Resin) is poured into a clean container and Part B (Hardener) is added. The two parts are mixed using a slow speed drill (300–400 rpm) until a uniform blend is achieved. The mixed product must be applied immediately.

Product Application

ErgoFlexi 50 is applied as a self smoothing coat by notched trowel, pin rake or serrated squeegee to achieve the required thickness of 2 mm. Immediately after application, roll the surface with a spiked roller in two directions to release entrapped air and assist flow and levelling.

Application should produce a continuous, uniform film free from pinholes, dry patches or trowel marks. Maintain a wet edge at all times and plan the works to avoid day joints in visible areas.

The protective topcoat should be applied once ErgoFlexi 50 has cured but remains within the overcoating window (typically 16–24 hours at 20°C). Beyond this window, the surface must be lightly abraded before overcoating.

Product Confines

ErgoFlexi 50 should not be applied at substrate temperatures below 10°C, or less than 3°C above the dew point. Substrates exceeding 75% RH must first receive a suitable damp proof membrane. The surface must be protected with the specified topcoat and is designed for foot traffic and light wheeled loads only; sharp point loads may indent the surface. Use material from the same batch in continuous visible areas to ensure colour consistency.

Cleaning

ErgoFlexi 50 floors should be maintained through regular cleaning using scrubber dryers or rotary machines fitted with soft pads, together with a neutral pH cleaning solution diluted in warm water. Daily sweeping or vacuuming is recommended to remove dust and grit that may cause abrasion of the surface. Spills of oils, foodstuffs or chemicals should be removed promptly with a damp mop to prevent surface staining.

For periodic maintenance, a mild neutral detergent may be used followed by rinsing with clean water. Abrasive powders, steam cleaners, highly alkaline or acidic products must be avoided as they can dull or damage the gloss finish.

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	6 Months Part A and 12 Months Part B when stored in unopened containers under proper conditions.
Pot Life Temp 20°C	15 to 20 Minutes
Curing Schedule 20°C	**Foot traffic:** 24 h • **Light traffic:** 48 h • **Full cure**: 7 days
FeRFA Floor Guide	Type 5
Storage	This Product must be stored off the ground in original packaging, unopened and un-damaged. The ambient conditions must be dry and between 10°C and 30°C with no direct sunlight. Protect from frost.
Abrasion Resistance EN 13892-4	AR0.5
Shore Hardness EN ISO 7619-1	D ≈ 50 - 55
Fire Classification EN 13501-1	B_{fl}-s1
Adhesion Strength EN 13892-8	>1.5 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.

All rights reserved © 2025