

PRODUCT DESCRIPTION

PlekoFloor® E140 is a two-component, solvent-free epoxy flooring system designed to deliver a tough, durable surface with excellent resistance to abrasion and wear.

USES

PlekoFloor® E140 offers strong wear and abrasion resistance, making it a reliable choice for a wide range of industrial environments. It serves as an ideal surface coating where a hygienic, glossy appearance is essential, and it can also be finished with an anti-slip texture for added safety in wet or high-traffic areas.

Typical Applications Include:

- Industrial and commercial kitchen environments
- Beverage manufacturing plants, such as soft drink production facilities
- Warehouses designed for moderate levels of foot and vehicle traffic
- Pharmaceutical and medical laboratories
- Engineering facilities, including aircraft hangars, automotive manufacturing, and maintenance workshops
- Food processing and production areas, including dairies, bakeries, mills, and confectionery facilities

PACKAGING

5 Kg or 32Kg Sets.

COVERAGE

The typical coverage rate for PlekoFloor® E140 is approximately **0.29–0.36 kg/m² per coat** at a dry film thickness (DFT) of **200–250 microns**

PROPERTIES

- Seamless, glossy finish with a textured aesthetic
- Optional slip-resistant surface for improved safety
- Durable and highly resistant to abrasion and wear
- Good resistance to a wide range of common chemicals
- Solvent-free, low-emission formulation
- Easy and efficient to apply
- Available in a range of attractive, practical colours
- Requires minimal maintenance over time

TECHNICAL DATA

Property	Method	Value
Color		Light grey, mid grey, dark grey, blue, beige, and red colors
Solid Content		100 %
Compressive Strength @ 7days	ASTM C579	60N/mm ²
Compressive Strength	ASTM D695	85 N/mm ²
Flexural Strength	ASTM C580	30 N/mm ² .
	ASTM D790	55 MPa.
Tensile Strength	ASTM C307	15 N/mm ²
	ASTM D638	30 MPa
Bond strength	BS 1881	2.5 N/mm ² (Concrete Failure)
Shore D Hardness	ASTM D2240	74

CHEMICAL RESISTANCE

PlekoFloor® E140 has been tested for resistance to a variety of commonly encountered chemicals in industrial and commercial environments. The product withstands spillage, dripping, and splashes from these substances,

provided proper cleaning and housekeeping procedures are maintained.

Tested Chemicals and Observations:

- **Butanol** – No effect
- **Skydrol** – No effect
- **Sugar Solution** – No effect
- **Ammonia (10%)** – No effect
- **Sodium Hydroxide (50%)** – No effect
- **Citric Acid (10%)** – No effect
- **Acetic Acid (10%)** – No effect
- **Lactic Acid (10%)** – Slight color change
- **Hydrochloric Acid (18%)** – Slight color change

INSTALLATION

MIXING

Pour both the base and hardener components into a clean, suitable mixing container. Using a slow-speed electric drill fitted with a spiral paddle mixer, blend the materials thoroughly until a uniform color is achieved and no streaks remain

SUBSTRATE PREPARATION

The substrate must be clean, sound, and free from any contaminants such as oil, grease, dust, or loose material. Mechanical surface preparation such as light grit blasting, grinding, or high-pressure water jetting is recommended to expose a solid, clean base. Follow this by thoroughly vacuuming to remove all dust and debris.

A properly prepared surface ensures strong adhesion and enhances the long-term durability of the PlekoFloor® E140 system. The ideal surface profile should resemble medium-grit sandpaper.

Ensure that concrete surfaces are at least 28 days old and have a moisture content not exceeding 4%. The substrate must be level and mechanically roughened before application.

PRIMING

All concrete surfaces to be coated with PlekoFloor® E140 must first be primed using PlekoFloor EP 120 primer, diluted with 5% solvent. After pouring both the base and hardener components into the mixing container, add the solvent and mix thoroughly using a slow-speed drill fitted with a spiral paddle mixer. Continue mixing until a uniform, streak-free blend is achieved.

Apply the mixed primer evenly to the dry, prepared substrate using a short or medium-nap roller at a coverage rate of 5–7 m²/kg. Allow the primer to cure completely and become tack-free before applying the PlekoFloor® E140 coating.

Alternatively, PlekoFloor® E140 can be diluted with 10% solvent and used as a primer coat.

APPLICATION

Before starting the application, ensure the surface is completely free from dust, debris, and any loose material. The area must be sealed off to prevent contamination from airborne particles, insects, or other intrusions. Keep all doors and windows closed throughout the process.

To maintain consistent colour and finish, use only resin from the same batch number within each application area.

Apply **two coats of PlekoFloor® E140** using a short to medium-nap roller. Allow a minimum of **18 hours** and no more than **36 hours** between coats. For best coverage, apply the second coat at a right angle to the first.

If more than **16 hours at 40°C** or **36 hours at 20°C** elapse after applying the primer, the primed surface must be lightly abraded and solvent-wiped to reestablish mechanical bonding.

Allow the final coat to cure for **at least 24 hours** before permitting light foot traffic. Full mechanical and chemical cure is achieved after **7 days**



CLEANING

All tools and application equipment should be cleaned immediately after use with a suitable solvent. Uncured **PlekoFloor® E140** can be effectively removed before it hardens. Once cured, the material can only be removed mechanically.

STORAGE

Store **PlekoFloor® E140** in a dry, well-ventilated area, away from direct sunlight and protected from rain. Containers should be kept off the ground on pallets and shielded from excessive compression or stacking. In regions with high temperatures or humidity, storage in a temperature-controlled environment is essential to maintain product quality.

The shelf life of the product is up to 12 months if stored in unopened containers, according to the manufacturer's instructions.

HEALTH AND SAFETY

As with all chemical products, care should be taken during both use and storage to avoid contact with eyes, mouth, skin, and foodstuffs. Vapors from the product can also taint food until it has fully cured or dried. In case of splashes to the eyes or skin, treat immediately by rinsing thoroughly with water. If the product is accidentally ingested, seek medical attention right away. Always re-seal containers after use to maintain product integrity and safety.

Attention

This product is intended for use by qualified professional contractors, as a component of a larger construction system and specification. It should be installed in accordance with given instructions and specifications. Information listed above reflects the criteria for our internal quality test and practical experience. Results depend on listed instructions and consumer skills and are therefore out of our responsibility whether expressed or implied. All values are valid for the product when dispatched from the plant. Technical data are generated under laboratory conditions, some variations are expected due to weather, site, and application conditions which are beyond the control of the manufacturer. We reserve the right to change any given specification without notice.