

PRODUCT DESCRIPTION

PlekoFloor E150 is a pigmented, solvent-free, high-build epoxy floor coating system designed to deliver seamless and long-lasting floor protection. It can be applied at thicknesses ranging from 0.2 to 0.50 mm. For enhanced slip resistance, PlekoFloor E150 can be combined with slip-resistant aggregates between coats, achieving anti-slip applications with system thicknesses between 0.50 to 2.0 mm

USES

PlekoFloor E150 offers exceptional wear, abrasion, and chemical resistance, making it ideal for a wide range of industrial and commercial applications.

It can be used to create a high-gloss hygienic finish or a slip-resistant coating system, depending on requirements. Providing reliable impermeable protection, PlekoFloor E150 protects against common oils, greases, lubricants, aviation fuels, and hydraulic oils such as Skydrol. As with any corrosive environment, a thorough analysis of operating and exposure conditions is essential, followed by reference to chemical resistance data to ensure the product's suitability.

PlekoFloor E150 is extensively used in the following areas:

- Food and beverage production areas
- High-traffic warehouses
- Automotive production and showroom areas
- Pharmaceutical and medical facilities
- Aircraft hangars and maintenance zones
- Chemical manufacturing plants
- Vehicle movement zones

PACKAGING

32 kg / set - including color Pack.

COVERAGE

The typical coverage rate for PlekoFloor® E150 is

- For Smooth Finish: 0.20-0.25L/m²/Coat (min. 2 coats)
- For Slip Resistant Finish: 0.25 – 0.30 L/m²/coat (min.2 coats)

PROPERTIES

- **Slip-resistant finish ideal for trafficable applications**
- **Superior chemical resistance for enhanced durability in harsh environments**
- **Smooth, high-gloss finish suitable for hygienic applications**
- **Excellent wear and abrasion resistance, ensuring long-lasting performance**
- **Easy application by brush, roller, or squeegee for efficiency and convenience**

TECHNICAL DATA

Property	Method	Value
Pot Life		35 min
Solid content		100%
Density		1.6Kg/l @+25°C
Bond strength	BS 1881 part 207	≥ 1.5 N/mm ² (Concrete Failure)
Flexural Strength	ASTM C580	40 N/mm ² .
Tensile Strength	ASTM C307	20 N/mm ²
Initial Curing time*		24 hrs
Final Curing time*		7 Days
Service temperature		Up to +60°C

*Curing times are approximate and may be affected by surrounding ambient conditions.

CHEMICAL RESISTANCE

Fully cured PlekoFloor® E150 has been tested for chemical resistance by exposure to various substances for **7 days at 25°C**. The results demonstrate that the coating resists damage from a wide range of industrial and commercial chemicals, though slight color changes may occur in some acidic conditions.

Tested Chemicals and Observations:

- **Skydrol** – Resistant
- **Ammonia (10%)** – Resistant
- **Butanol** – Resistant
- **Petrol** – Resistant
- **Sodium Hydroxide (50%)** – Resistant
- **Mineral Oil** – Resistant
- **Saturated Sugar Solution** – Resistant
- **Citric Acid (10%)** – Resistant
- **Acetic Acid (10%)** – Resistant
- **Saturated Urea Solution** – Resistant
- **Lactic Acid (10%)** – Resistant (with color change)
- **Hydrochloric Acid (18%)** – Resistant (with color change)
- **Sulphuric Acid (50%)** – Resistant (with color change)
- **Nitric Acid (20%)** – Resistant (with color change)

INSTALLATION

MIXING

Pour the full contents of the reactor component into the base container. Using a slow-speed drill equipped with a suitable mixing paddle, blend the two components together for approximately 2 minutes. Continue mixing until the blend is completely uniform in color and free from any visible striations

SUBSTRATE PREPARATION

Ensure the substrate is free from laitance, oil, grease, or any weak or deteriorated concrete that could compromise adhesion. The surface must be flat and even.

Irregularities should be either ground down or repaired using suitable approved mortars.

An ideal surface profile resembles that of medium-grit sandpaper and can be achieved through light grit blasting, captive shot blasting, or mechanical grinding. After surface preparation, thoroughly remove all dust and debris using an industrial vacuum to ensure a clean, bond-ready substrate

PRIMING

PlekoFloor E150 does not typically require a separate primer. However, to ensure complete coverage, apply additional material as needed to achieve a continuous, pore-free coat over the entire substrate.

APPLICATION

PlekoFloor E150 is a highly adaptable system designed for application at thicknesses ranging from **200 to 300 microns per coat**, achieving a total **dry film thickness (DFT) of 0.4 to 0.6 mm** in a two-coat system.

For smooth, even finishes, apply using a **short-haired roller or brush**.

For slip-resistant applications, first apply the base coat, then broadcast **Pleko Aggregates** onto the wet surface at a rate of **0.5–1.0 kg/m²** to achieve full coverage. After initial curing (approximately 12 hours at 40°C), remove excess aggregate by brushing or vacuuming. The final surface texture can be adjusted by varying the quantity and type of aggregate used.

Apply the topcoat within the recommended recoat window:

- **within 24 hours at 40°C) or**
- **36 hours at 25°C.**

Note that the topcoat may require a higher quantity of material than the base coat depending on the surface profile and aggregate density to ensure a fully sealed finish.

ensure that PlekoFloor E150 is stored in a sheltered area away from extreme temperatures, preferably in a climate-controlled environment



CLEANING

Uncured PlekoFloor E150 should be cleaned from tools and equipment immediately using Xylene. Once the material has fully cured, it can only be removed through mechanical means.

STORAGE

Store **PlekoFloor E150** in a covered, well-ventilated area, away from direct sunlight and extreme temperatures. Improper storage conditions may lead to early degradation of the product or its packaging. For detailed storage recommendations, please consult the technical support team.

HEALTH AND SAFETY

As with all chemical-based materials, Apply necessary precautions during handling and storage of **PlekoFloor E150**.

Avoid contact with skin, eyes, mouth, and food items, which may absorb vapors until the product is fully cured.

In case of accidental skin or eye contact, rinse immediately with clean water. If ingested, seek medical attention without delay. Keep the product out of reach of children and animals, and ensure containers are properly sealed after each use.

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.