

TECHNICAL DATA SHEET

DuraFloor 416 EP SL Antistatic



Two-component, solvent-free antistatic epoxy floor coating for roller and self-smoothing applications.

DESCRIPTION

DuraFloor 416 EP SL Antistatic is a two-component, solvent-free epoxy floor coating with electrical conductivity for safe static discharge and chemical resistance.

For textured or self-smoothing finishes with a suitable special filler.

ADVANTAGES

- Antistatic; dissipates static electricity
- Water-impermeable finish
- Chemical and bacterial resistance
- Durable and frost resistant
- Hygienic and easy to clean

AREAS OF APPLICATION

- Industrial floors
- Food factories and laboratories
- Areas requiring mechanical and chemical resistance
- Suitably prepared concrete, metal and existing tiled surfaces

TECHNICAL INFORMATION

Property	Declared value
Chemical base	Two-component epoxy resin
Colour	Black / Dark grey
Mixed density	1.50 ± 0.15 kg/L
Packaging	5 kg and 20 kg sets
Mixing ratio A : B (by weight)	4 : 1
Shelf life	12 months, unopened original packaging
APPLICATION PARAMETERS	
Consumption per coat	1.00–1.50 kg/m ²
Maximum consumption	2.5 kg/m ²
Recommended coating thickness	1.5 mm
Application time	40 minutes; dependent on conditions
Pot life (+20°C)	Approx. 30 minutes
Full strength	7 days
Mixing time	2–3 minutes

TEST REFERENCES

EN 1081 | EN 61340-4-1 | TS EN 4624 | DIN 53109

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PERFORMANCE PROPERTIES

Property / Test method	Declared value
Concrete Adhesion Strength (TS EN 4624)	> 3.5 N/mm ² ; failure in concrete
Abrasion resistance (DIN 53109)	Approx. 70-100 mg
Abrasion test conditions	CS 10 / 1000 / 1000
Resistance to earth (EN 61340-4-1)	10 ⁶ -10 ⁹ Ω
Electrical resistance reference	EN 1081
Full strength	7 days

SUBSTRATE PREPARATION

The substrate must be sound, clean and dry. Remove dust, oil, grease and all contaminants that could impair adhesion.

Prepare metal by abrasive blasting or use a suitable metal primer. Prime concrete with a compatible epoxy primer.

Check the suitability and adhesion of existing finishes before coating.

MIXING & APPLICATION

Mix components A and B at 4:1 by weight for 2-3 minutes using a low-speed mixer until homogeneous.

Spread with a roller or trowel. For self-smoothing application, add the required amount of suitable special filler, spread with a trowel and de-aerate with a spiked roller.

Apply at 1.5 mm thickness. Do not exceed 2.5 kg/m². Increasing thickness reduces conductivity.

HEALTH & SAFETY

May irritate skin. Wear protective gloves, goggles and suitable work clothing.

If eye contact occurs, rinse immediately with plenty of water and seek medical advice. Refer to the Safety Data Sheet for safe handling, storage and disposal.

EARTHING CONNECTIONS

After priming, connect brass earthing plates securely to a reliable earth.

Provide plates to serve each 100 m² area. Keep the distance between earthing points at a maximum of 10 m.

Where additional plates cannot be installed, bridge distances exceeding 10 m using copper tape. Verify electrical continuity of the system.

FINISHED FLOOR

The finished floor is to achieve H/L < 0.05 over any 100 mm length (L), where H is the height difference.

The finished surface is to provide diffuse light reflection for laser-guided robot operation and navigation. Verify both properties after full cure.

CURING & LIMITATIONS

Temperature affects working time and cure: low temperatures slow curing; high temperatures accelerate it.

Protect the fresh coating from direct sunlight, strong wind, temperatures above +35°C, rain and frost.

UV exposure may cause colour changes or yellowing. Avoid application below the permitted minimum temperature; obtain project-specific guidance.

STORAGE & CLEANING

Shelf life: 12 months in unopened original packaging.

Prolonged storage below 0°C may cause crystallisation. Bring the material to room temperature and ensure crystals have fully dissolved before use.

Clean tools with a suitable epoxy thinner before curing. Remove hardened residue mechanically.

BASIS OF PRODUCT DATA

Values are approximate laboratory results at +20°C and 50% relative humidity, generally at 28 days unless stated otherwise.

Actual results depend on site conditions. Confirm suitability for the intended use and follow the current TDS and SDS.