Technical Data Sheet

EpoGuard AS

Anti-Static, Solvent-Free Epoxy Coating

Product Description

EpoGuard AS is a two-component, solvent-free epoxy coating designed to provide durable, anti-static flooring protection. It offers excellent mechanical strength, chemical resistance, and conductivity control, making it ideal for sensitive environments such as electronic manufacturing, laboratories, and clean rooms.

Product uses:

- **Electronics manufacturing plants** – prevents static buildup that can damage sensitive components.
- **Clean rooms & laboratories** – ensures controlled, hygienic, and safe flooring surfaces.
- **Pharmaceutical production areas** – supports contamination control and static safety.
- **Data centers & server rooms** – protects equipment from static discharge.
- **Automotive & aerospace facilities** – suitable for assembly lines with electronic systems.
- **Hospitals & healthcare facilities** – ideal for diagnostic labs and operating theaters.
- **Warehouses & industrial floors** – heavy-duty resistance with anti-static protection.

Properties

- Solvent-free formulation (low VOC, eco-friendly)
- Anti-static properties for safe ESD control
- High mechanical strength and abrasion resistance.
- Excellent adhesion to concrete and epoxy substrates.
- Chemical resistance to oils, fuels, mild acids, and alkalis.
- Easy to clean, hygienic surface finish.

TECHNICAL PROPERTIES

Appearance/Color	Glossy / Standard grey, other on request
Density:	1.45 kg/liter (Mixed)
Volume solids %:	100 %
Theoretical spreading rate:	0.5 m²/ltr / 0.33 m²/kg (2mm DFT)
Consumption:	2 ltr/ m² (3.06 kg/m²)
Recommended DFT:	2-4 mm
(Dry Film thickness)	
Flash Point:	130°C. /266 °F.
Open time:	30-40 (23°C and 50% R.H.)
Surface dry:	8 approx. hour(s) 23°C/73.4°F 50% R.H
Light foot traffic	14-18 hours (23°C and 50% R.H.)
Full dry:	24 hours (23°C and 50 % R.H.)
Full cure time:	7 days (23°C and 50 % R.H.)
Application temperature:	+8 °C/46.4° F and +35 °C/ 95°F
Min. cure temperature:	+10°C/50°F

Application Details

Mixing Ratio:	Component A: 4– Component B: 1 (By weight)
Application method:	Metal Trowel
Thinner:	Do Not Thin The Product
Thinner Amount:	Do Not Thin the product

Application :

- Ensure concrete substrate is fully cured, dry, and structurally sound.
- Remove laitance, dust, grease, and contaminants by mechanical grinding or shot-blasting.
- Repair cracks and holes with epoxy mortar.
- Check moisture content (should be below manufacturer's recommended limit, typically <4–5%).
- Apply one coat of Top floor 600 with roller or squeegee at recommended coverage (usually 0.2–0.3 kg/m²).
- Allow curing (typically 6–12 hours, depending on temperature).
- Apply copper grounding tape in a grid pattern (commonly 3–5 m spacing).
- Ensure tapes are firmly adhered to the substrate and extend to grounding points.
- Connect tapes to earth grounding system for conductivity.
- Press down edges to avoid air pockets or lifting during coating.
- Apply Top Floor 900 C primer or black conductive coating over copper tapes.
- This ensures electrical continuity across the floor surface.
- Mix self-leveling anti-static epoxy resin and hardener thoroughly.
- Pour mixture onto floor and spread with notched trowel or rake.
- Use spike roller to release trapped air and ensure smooth finish.
- Typical thickness: 2–3 mm.
- Ensure continuous contact with copper tapes for conductivity.
- Allow floor to cure undisturbed (24–48 hours for light traffic, 5–7 days for full cure).
- Maintain ambient temperature and humidity within recommended limits.
- Test electrical resistance (per IEC or ASTM standards) to confirm anti-static performance.
- Inspect adhesion and finish before handover.

PRECEDING COAT:

➢ **Top Floor 900 C**

Shelf life & Storage:

12 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.

Safety:

For information and precautions on the safe handling, transportation storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Legal Notice:

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