ALEF ESD 510 EP CONDUCTIVE PRIMER®

Antistatic ESD Conductive Solvent-Free Epoxy Primer

DESCRIPTION

ALEF ESD 510 EP CONDUCTIVE PRIMER® is a two-component, solvent-free, epoxy resin-based primer with high electrostatic conductivity.

USES

- As a primer for concrete surfaces, cementitious screeds, and epoxy mortars
- Suitable for normal and highly absorbent substrates
- Used as a primer for antistatic floor coating systems

PROPERTIES

Color	Black
Solid Content	~100% (by weight)
Solvent	None
Density (Component A – Resin)	1.55 kg/l (+23°C) (DIN EN ISO 2811-1)
Density (Component B – Hardener)	1.00 kg/l
Mixed Resin Density	~1.40 kg/l
Consumption	0.300 – 0.500 kg/m²
Packaging	12 kg Component A + 5 kg Component B
Mixing Ratio	A/B: 12/5 (by weight)
Pot Life	+20°C approx. 30 minutes
Electrostatic Conductivity	Re 10^3 – 10^6 Ω (IEC 61340-4-1)
VOC	< 50 g/l (TS EN ISO 11890-2) – complies with LEED requirements
Mixed Viscosity	1000 – 1100 mPa·s (+23°C) (DIN EN ISO 2555)
Adhesion Strength	> 3.5 N/mm² (concrete failure) (DIN EN 13892-8)
Curing Time (+10°C)	24 hours – 4 days
Curing Time (+20°C)	12 hours – 2 days
Curing Time (+30°C)	8 hours – 24 hours
Waiting time before application of ALEF ESD 520 EP Conductive and ALEF ESD 521 EP Dissipative Self-Leveling RAL Top Coat.	
Application Methods	Trowel and Roller
Shelf Life	1 year
Equipment Cleaning	Epoxy Thinner or suitable solvent thinner

APPLICATION CONDITIONS

Surface Temperature: +10°C / +30°C
Ambient Temperature: +10°C / +30°C
Relative Humidity: Max. 80%

SURFACE PREPARATION

The substrate must be clean, dry and open-pored.
All dust, laitance and loose particles must be removed.
Surface repairs and filling of voids should be carried out using a mixture of **ALEF EP 115 PRIMER® and quartz sand**.
Concrete substrates should be primed and levelled where necessary.

MIXING

Component A (Resin – 12 kg) + Component B (Hardener – 5 kg)
(Total product mixing ratio: 1 complete set)
After combining **Component A and Component B**, mix with a mechanical mixer for **3 minutes** until homogeneous.

APPLICATION

Copper tape is applied onto the epoxy-primed and sand-broadcasted surface.
Afterwards, apply the antistatic conductive primer over the copper tape using a **trowel**, and then evenly distribute with a **roller**.

PACKAGING

- **Two-component set (A + B): 17 kg**
- **Component A:** 12 kg (Antistatic conductive epoxy, black, liquid)
- **Component B:** 5 kg (Epoxy hardener, yellowish, liquid)

STORAGE

Store the product between **+10°C and +30°C**.
Protect from direct sunlight.
Opened containers must be tightly closed and stored in their original packaging.
Opened products should be used within **one week**.

SHELF LIFE

- **12 months** from the date of production when stored in unopened, undamaged original packaging in dry conditions.
- Containers must be tightly closed when not in use.
- Protect from frost.
- Do not stack pallets on top of each other during storage and transportation.

SAFETY

This product is intended for professional use only.
Use appropriate personal protective equipment (mask, gloves, goggles).
Avoid inhalation, ingestion, and contact with skin and eyes.
Protect eyes and face during application.
In case of eye contact, rinse immediately with plenty of water and seek medical advice.
Apply in well-ventilated areas and take necessary precautions against fire, explosion, and environmental contamination.
Refer to the Material Safety Data Sheet (MSDS) before use.

LEGAL DISCLAIMER

ALEF YAPI ÜRÜNLERİ İnş. Taah. San. ve Tic. Ltd. Şti. shall not be held responsible for application errors resulting from improper use of the product or failure to follow the above instructions.

Alef Yapı Ürünleri İnş. Taah. San. ve Tic. Ltd. Şti.
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