

Electrokot

Spray-Applied Electrical Insulation Coating for Induction Furnace
OEM Manufacturing

V3.0

PRODUCT DESCRIPTION

Electrokot-SP is a two-component, solvent-free, high-build epoxy electrical insulation coating engineered for spray application in induction furnace coil manufacturing.

APPLICATION

Two component Solvent free high build grey epoxy coating designed OEM manufacturing insulation of induction furnace copper coils, new coil production requiring controlled insulation build, and high-throughput coil coating operations.

PROPERTIES

- Spray-optimized formulation for production
- High build per coat with excellent sag resistance
- Consistent film formation on complex coil geometries
- Reduced number of coats to achieve target DFT
- Faster inter-coat curing for shorter cycle times
- Strong adhesion to copper substrates

PACKING & COVERAGE

- 6 kg (5kg-Part A + 1kg-Part B)
Coverage depends on coating thickness, surface geometry, and application method

TECHNICAL DATA

	Unit	Part A	Part B
Visual Appearance		Grey flowable liquid	Clear/pale yellow liquid
Viscosity @25°C	mPa.s	35500 – 40500	100 - 500
Density @25°C	g/cc	1.3 – 1.35	1.0 - 1.05
Odor		No	Slight
Shelf Life		1 year when stored in original containers at room temperatures	1 year when stored in original containers at room temperatures

INSTRUCTIONS FOR USE

Surface Preparation

- Copper coil surfaces must be clean, dry, and free from oil, grease, dirt, or oxidation.
- Degrease thoroughly using a suitable solvent.
- Light mechanical abrasion is recommended where feasible to improve adhesion.

Application Steps

- Mix both components thoroughly for at least 2 minutes until a uniform mixture is obtained.
- Apply using suitable spray equipment (airless / air-assisted airless / conventional spray depending on coil geometry).
- Apply uniform coats to achieve the desired build per coat.
- Allow sufficient inter-coat time before applying subsequent coats.
- Multiple coats may be applied to achieve the required insulation thickness.

CURED PROPERTIES

Mix Ratios A:B [pbw]	100:20		Flexural Strength (7 days) [N/mm ²]	> 30
Pot Life @ 25°C [min]	15-35		Bond Strength (7 days) [N/mm ²]	>(Substrate failure)
Cure Time [hrs] Dust dry Full cure	@25°C 10 72	@35°C 8 48	Dielectric strength [KV/mm]	>20
Compressive Strength (7 days) [N/mm ²]	> 60		Water Absorption	NIL
Tensile Strength (7 days) [N/mm ²]	> 40		Shelf Life	1 year when stored in original containers at room temperatures

LIMITATIONS

- Intended for OEM production spray application only
- Not recommended for brush application or small localized repairs
- For maintenance and repair use, refer to Electrokot-HB

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TYPICAL FILM BUILD

- Higher DFT achievable per coat compared to maintenance-grade systems
- Total insulation thickness typically built through multiple spray coats.
- Final thickness selected based on OEM design and insulation requirements.

HANDLING AND DISPOSAL

General protective equipment like gloves, proper clothing and goggles need to be used during handling to avoid any contact with skin and eyes.

Regular procedures approved by local authorities to be followed for disposal.

TECHNICAL SUPPORT

Jpoxyl Polymers offers a comprehensive range of high performance, high quality adhesives, flooring, jointing and repair products for both new and existing floor surfaces. Please feel free to contact for product selection, technical support service to consultants, end users and contractors and on-site support.