



ELECTRO POWER ENTERPRISE

Manufacturer & Service Provider of Induction Furnace Components

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FLEXOCOAT

Two-Component Epoxy-Based Flexible Insulating Coating

FLEXOCOAT is a high-performance insulating coating with excellent adhesion and superior electrical and mechanical properties, including thermal shock resistance and long service life. This coating is specially developed for electrical induction furnace coils. It provides excellent adhesion on copper and stainless steel surfaces and offers reliable protection against sparking, electrical leakage, and short-circuiting.

Physical Properties

Colour	Grey
Finish	Semi Glossy
Non-Volatile Content	90 ± 2 %
Flash Point	Above 25 °C
Shelf Life	6 Months (Individual Components)

Application Details

Mixing Ratio	1 : 1 (By Weight)
Pot Life	2 – 3 Hours @ 25 °C
Thinner	Type 112 (If Required)
Covering Capacity	0.6 to 0.8 Sq. Mtrs./Kg (For 1 mm Thickness)
Dielectric Strength	Minimum 400 Volts / Mil

Directions for Use

- Clean the surface to be coated by sand blasting or chemical degreasing.
- Stir base and hardener separately to homogenize sediments.
- Mix base and hardener thoroughly before brushing or spraying.
- Apply four to five coating cycles to achieve 0.5 to 1.0 mm thickness.
- Apply successive coats only after previous coats are fully cured.
- For faster curing, circulate hot water at 60–80 °C inside the coil with 30–40 minutes interval.
- Ensure complete coverage to prevent sparking and short circuits.
- Minimum film thickness of 0.4 mm provides electrical resistance of at least 5 kV.
- Mix only usable quantity within the specified pot life.
- Discard leftover thickened material.