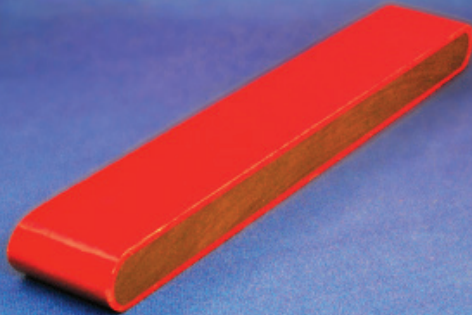


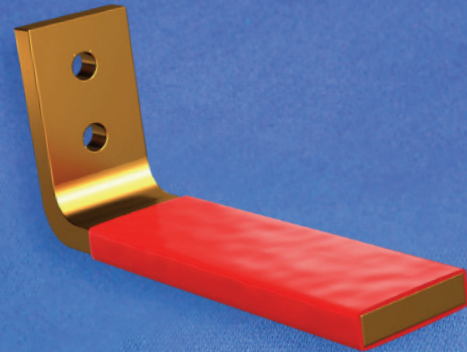
SolEpoxy™ DK15-0907



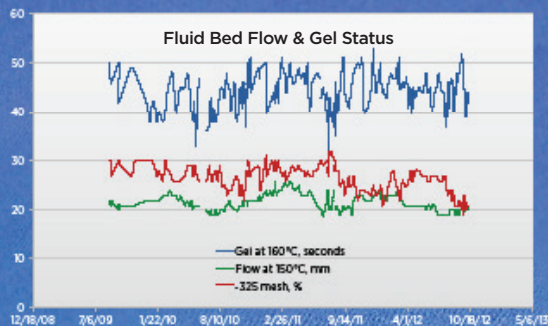
The one powder solution for low and medium voltage busbar and switch gear applications



UNIFORM COATING IN EXCESS OF 5 MILLIMETERS



SMOOTH FINISH AND GREAT ADHESION



PRODUCTIVITY SUPPORT AND BED-LIFE EXTENDERS



FINE GRINDS AND FLUIDIZING AGENT TO EXTEND BED LIFE AND PRODUCTIVITY

DESCRIPTION

SolEpoxy™ DK15-0907 is the one powder solution for both **low and medium voltage busbar** and **switch gear applications**.

The fusion bonded coating is smooth, tough, and moisture resistant for **applications up to 38 KV**.

DK15-0907 meets the **UL746B Relative Thermal Index (RTI) of 130°C**.

Rapid and thick build **reduces production cycle times**. Particle size is optimized for the fluidized bed coating process.

ADVANTAGES

- ▶ One powder for low and medium voltage busbars
- ▶ Suitable for copper and aluminum bar
- ▶ Coating build in excess of 200 mils (5 mm)
- ▶ Rapid build rates to reduce cycle times
- ▶ Productivity support including:
 - ▶ Fine grind powder to replenish size distribution
 - ▶ Fluidizing agent to promote uniform build
 - ▶ Ongoing testing to optimize quality & productivity

SolEpoxy™ DK15-0907

The one powder solution for low and medium voltage busbar and switch gear applications

RECOMMENDED CURE CONDITIONS

Application Method ¹ ,	electrostatic fluidized bed	■□□□
	fluidized bed	■■■■
	electrostatic spray / blow coating	■□□□
Cure Conditions, minutes,	@ 170 °C	20
	@ 210 °C	5
Preheat Temperature, °C		170 - 220

UNCURED PROPERTIES

Particle Size, %,	- 210 micron / 70 mesh	100
	- 44 micron / 325 mesh	31
Halogen-free		yes
RoHS / REACH Compliant		yes

TYPICAL CURED GENERAL PROPERTIES

Available Colors ²	Red	●
ability to visually detect arc tracks ¹		■■■■
Specific Gravity, g/cc		1.5
Glass Plate Flow, mm,	@ 150 °C	19
Hot Plate Gel Time, seconds,	@ 160 °C	30
Laser Markable ¹		■□□□
Edge Coverage ³ , %		45.0

TYPICAL CURED MECHANICAL PROPERTIES

Closed Anvil Impact ⁴ ,	inch/lbs	160
	joules	7.69

TYPICAL CURED THERMAL PROPERTIES

UL Relative Thermal Index (RTI) Rating, UL 746B, °C	130
UL Flammability Rating, UL 94	V-0
Glow wire flammability test ⁵ / GWFI (3.00 mm), IEC60695 2-12, °C	960
Glow wire ignitability test ⁵ / GWIT (3.00 mm), IEC60695 2-13, °C	825

TYPICAL CURED ELECTRICAL PROPERTIES

Arc Resistance, seconds	135
Dielectric Strength ⁶ ,	volts/mil 1180
	kV/mm 46
Dielectric Constant, 100 Hz,	@ 25 °C 4.0
	@ 100 °C 4.0
Dissipation Factor, 100 Hz,	@ 25 °C 0.007
	@ 100 °C 0.021

¹ rating: ■□□□ poor, ■■□□ fair, ■■■□ good, ■■■■ excellent

² custom colors may be possible to formulate

³ dipped, cured @ 210°C, -17 mils / 0.43 mm

⁴ cured 10 minutes @ 210°C

⁵ on copper or aluminum substrate, at least 6 mm thick

⁶ 20 mil / 0.51 mm thickness

STORAGE & HANDLING

- ▶ At 10 °C / 50 °F or below, shelf life from date of invoice is twelve (12) months.
- ▶ The product should be stored in closed containers and these closed containers of product should be brought to the ambient temperature of the manufacturing location prior to opening in order to prevent water condensation on the product.
- ▶ Do not open packaging while the product is colder than the manufacturing room temperature! If this is done, moisture will condense on the product surface. This moisture exposure could damage the product and result in processing issues including incomplete curing.
- ▶ The time for temperature equilibration depends on the mass of material being prepared for use. For example, 5 kg will take about 4 hours to warm-up, whereas 50 kg may require 12-24 hours to equilibrate.
- ▶ For safety-related handling information, consult the product Safety Data Sheet (SDS) available at www.solepoxy.com.

NOTICE TO SPECIFIERS

The data values contained here may be reported as “typical” or as a range based on our actual testing, which we repeat and verify periodically. It is our customers’ responsibility to determine suitability for use, process, and purpose. We recommend that each user test their proposed application using this data as a guide. SolEpoxy will offer best efforts to support application engineers.