

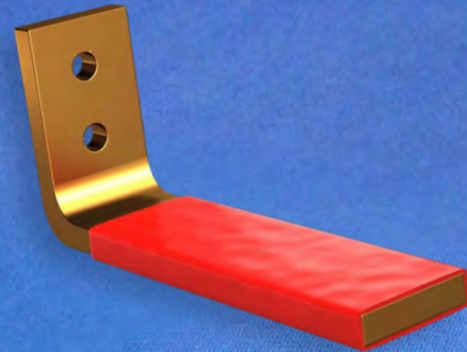
# SolEpoxy™ DK15-0907



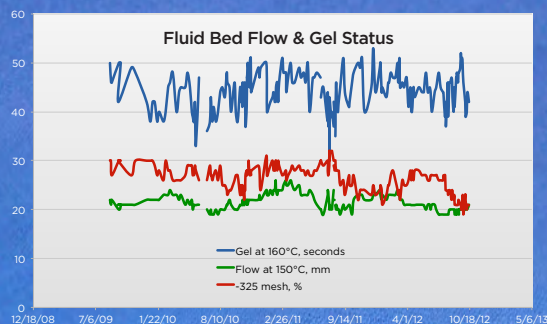
The one powder solution for low and medium voltage busbar and switch gear applications



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** and is currently **on-test for an RTI at or above 150°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

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## RECOMMENDED CURE CONDITIONS

Application Method <sup>1</sup> ,	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	
Shelf Life, from date of manufacture, months,	@ 10 °C	9

## TYPICAL CURED GENERAL PROPERTIES

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

## TYPICAL CURED MECHANICAL PROPERTIES

Closed Anvil Impact <sup>4</sup> ,	inch/lbs	140
	joules	7.69

## TYPICAL CURED THERMAL PROPERTIES

UL Relative Thermal Index (RTI) Rating, UL 746B, °C	130
UL Flammability Rating, UL 94	V-0
UL Class Rating, UL 1446	B
Glow wire flammability test / GWFI (3.00 mm), IEC60695 2-12, °C	775
Glow wire ignitability test / GWIT (3.00 mm), IEC60695 2-13, °C	750

## TYPICAL CURED ELECTRICAL PROPERTIES

Arc Resistance, seconds	135	
Dielectric Strength <sup>5</sup> ,	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

<sup>1</sup> rating: ■□□□ poor, ■■□□ fair, ■■■□ good, ■■■■ excellent

<sup>2</sup> custom colors may be possible to formulate

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

<sup>4</sup> cured 10 minutes @ 210°C

<sup>5</sup> 20 mil / 0.51 mm thickness

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## STORAGE & HANDLING

Powder should be stored at 10°C or below, in closed containers. After removal from cold storage, the material **must be allowed to come to room temperature** in the sealed container to avoid moisture contamination. Suggested waiting time is 24 hours. Please consult our *Product Handling Recommendations for Coating Powders*.

**For safe handling information on this product, consult the Material Safety Data Sheet (MSDS).**

## DATA RANGES

The data contained herein may be reported as a typical value and/or range of values based on actual test data and are verified on a periodic basis.

**NOTICE FOR SPECIFIERS:** The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose. Consequently, we disclaim responsibility for user's specification of this or other SolEpoxy product.

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