

# LOCTITE®

**Hysol® Coating Powders**  
for Electric Insulation



**Henkel** Technologies



## **Innovative Powder Coating Technology Solutions**

### **The Hysol® coating powder advantage**

Henkel Loctite's Hysol® epoxy coating powders provide electrical insulation and protection for a broad array of applications. With our decades of experience, Henkel Loctite provides the highest level of service and quality for functional powder applications. Hysol® coating powders are manufactured to ISO 9001 and QS9000 quality standards in our Olean, New York facility. Trust the Henkel Loctite team and Hysol® coating powders to meet your most demanding applications.

### **Trusted for demanding applications**

Henkel Loctite's Hysol® coating powders are proven for the following applications:

- Electric motor stators and armatures
- Alternator components
- Electrical housings/modules
- Electrical power distribution

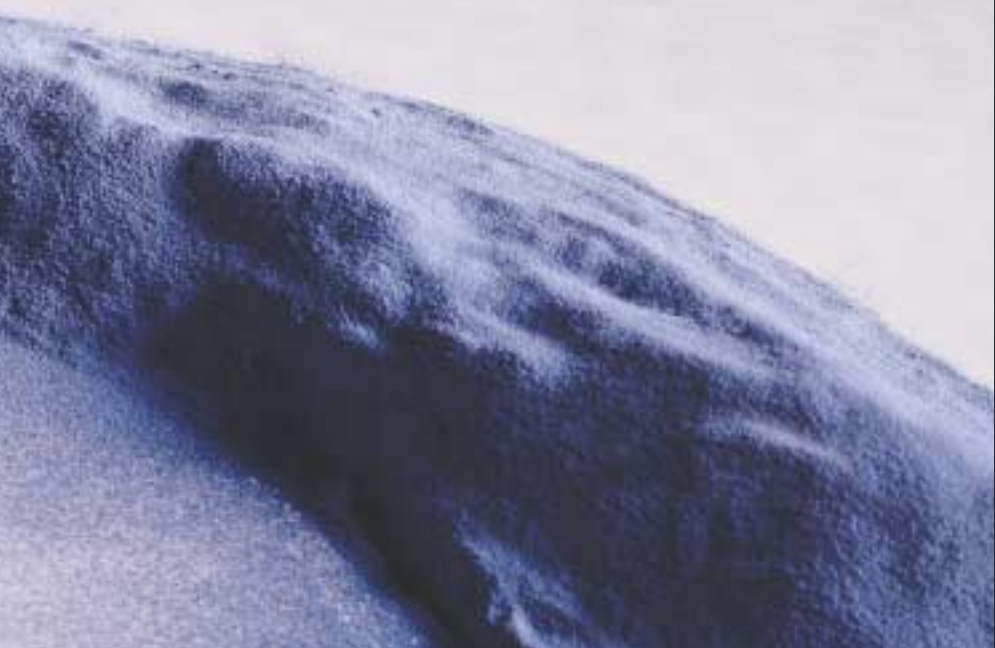
### **Unparalleled functionality**

Henkel Loctite continues to innovate new powders that meet broad market demands, as well as creating custom formulations to meet our customers' needs. The Hysol® powder families are characterized by:

- Outstanding chemical resistance, including motor oil, fuel, etc.
- 100% solids (VOC-free)
- Low coating thickness required to achieve maximum performance
- Excellent cut through resistance
- Excellent edge coverage
- High service temperatures
- Capability to provide a range of thermal conductivities
- Both induction and oven cure chemistries
- Reduced cost versus traditional slot liners

## Application Equipment

Henkel Loctite is dedicated to providing complete solutions to our customers. We can recommend and coordinate the installation of equipment that best suits your application.





Motor Iron Powder Coatings											
UL857 Temp Class	Product Number	Description	Cure Schedules (Temp/Time)	Specific Gravity	Cut-Through Resistance	Edge Coverage (%)	Impact Resistance (Inch-lbs. Newton Meters)	Gel Time @ 210°C Hot Plate, sec.	Dielectric Strength (volts/mil) 25 mil coating	Volume Resistivity (Ohm-cm at 21°C)	Color
B	DK7-0953M	Epoxy based coating powder developed for the insulation of motor stators and armatures. Offers cut through temperature resistance with good edge coverage and good adhesion to metal substrates. Designed to be applied by an electrostatic fluid bed process, and cured by means of an induction coil.	210°C / 10 min.	1.82	360°C	33	140	38	785	10 <sup>14</sup>	Blue
B	DK15EG-05	Epoxy based coating powder developed for the insulation of motor armatures and stators. Offers cut-through temperature resistance, is flexfuel (unleaded gasoline and methanol) resistant and is UL recognized for 130°C operating temperature. Designed to be applied by an electrostatic fluid bed process, offering fast cure in an induction coil curing process. Particle size is tailored to provide low dusting levels.	210°C / 10 min.	1.75	345°C	46	160	6	1010	10 <sup>14</sup>	Green
B	DK101	Epoxy based coating powder developed for the electrical insulation of motor stators and armatures. Offers excellent cut through temperature resistance with good edge coverage and adhesion to metal substrates. Designed to be applied using an electrostatic fluid bed process and to be cured in a convection oven.	210°C / 15 min.	1.78	380°C	30	140	66	900	10 <sup>14</sup>	Blue
B	DK15-02B/60 mesh	Epoxy based coating powder developed for the insulation of motor armatures and stators. It offers cut-through temperature resistance with good edge coverage and is UL recognized for 130°C operating temperature. Designed to be applied via a blow coating process and can be applied via a standard fluid bed process in most applications.	210°C / 5 min.	1.77	325°C	50	160	10	1000	10 <sup>14</sup>	Green
N.E.	DK15-0934	One part, low temperature fusing epoxy powder especially designed for wire impregnation. Formulated to provide maximum protection for windings on armatures and stators.	200°C / 5 min.	1.2	N.E.	N.E.	160	10	1000	10 <sup>14</sup>	Opaque
N.E.	DK15-0984	Epoxy based coating powder especially developed for the insulation of alternator housings. Formulated to provide high thermal conductivity (cal/cm sec°C 18.8 x 10 <sup>-4</sup> ) while maintaining cut through temperature resistance, edge coverage protection and excellent adhesion to metal substrates. This product can also be used for the insulation of motor armatures and stators. Developed to be applied via a cold electrostatic spray process or blow coating application.	200°C / 5 min.	2.03	305°C	30	160	31	1100	10 <sup>14</sup>	Black



Bus Bar Switchgear Powder Coatings											
B	DK15-0463	Epoxy based coating powder developed for the insulation of low voltage bus bars. Offers improved moisture resistance when compared to other DK15 series products. Provides smooth surface appearance with high edge coverage properties. Particle size distribution is tailored for application via a fluid bed process.	233°C / 15 min.	1.52	45	150	48	1130	10 <sup>16</sup>	Black	
B	DK19	Epoxy based powder developed for the insulation of medium voltage bus bars where good arc resistance is critical to performance. Provides a high build rate allowing for increased coating thickness while maintaining smooth surface appearance. Particle size distribution is tailored for application via a fluid bed process.	210°C / 5 min.	1.81	45	140	50 sec. @ 160°C	1040	10 <sup>16</sup>	Red	
B	DK15-0606	Epoxy based powder developed for the insulation of low to medium voltage bus bars. Provides a smooth surface appearance with high edge coverage properties. Particle distribution is tailored for application via a fluid bed process.	210°C / 5 min.	1.57	40	140	11	1190	10 <sup>16</sup>	Tan	
N.E.	DK68	Epoxy based powder developed for the insulation of low voltage electrical apparatus including busbar. It offers excellent moisture resistance and flexibility. Provides a smooth surface appearance. The particle size distribution can be tailored for fluidized bed, electrostatic and spray methods of application.	200°C / 15 min.	1.40	20	160	12	1400	10 <sup>16</sup>	Gray	



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