

PRODUCT SELECTOR GUIDE



COATING POWDERS







SOLEPOXY

SERVES THE WORLD







Corporate

Olean, NY, USA

Research & Development

Manufacturing

Customer Service

Amsterdam, NL

Marketing
Planning
Technical Sales



Warehouses

Olean, NY, USA Rotterdam, NL Calexico, CA, USA Chennai, India Manila, Philippines

Safety stock in coldstorage warehouses around the globe minimize shipping costs and delivery time.



Market Partners

Indian subcontinent
Greater China
Korea
Southeast Asia

Representatives fluent in local languages provide product information & technical support

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For high yield powder metal processing DK14-2100 Brown





BEST PERFORMANCE, PRICE & PRODUCTIVITY

- The fastest Class H product in the market today
- Class H at the Class F price

Color matched and specially formulated to run in the same production lines with our most economical automotive fluid-resistant Class F epoxy coating powder.

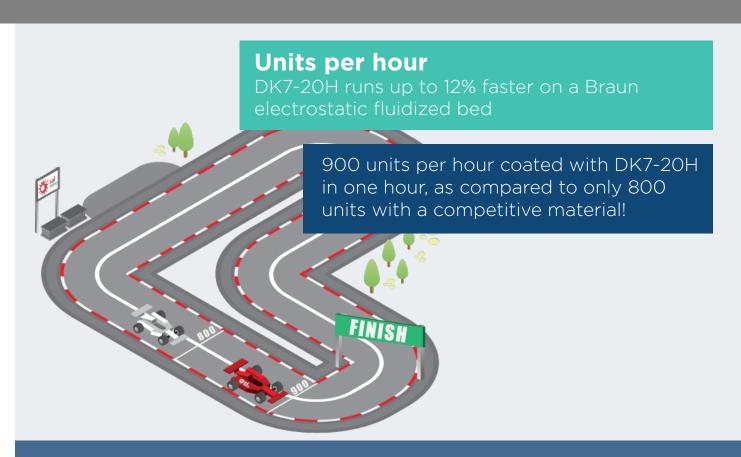
CLASS H SolEpoxy DK7-20H

With a Thermal index of 186°C, DK7-20H is a strong Class H powder.

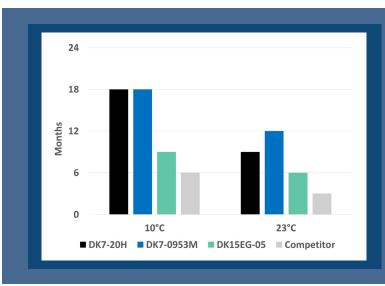


	DK7-20H	DK7-0953M	DK15EG-05	DK15-02
UL 1446 system Class rating	Н	F	F	В
Cut through resistance (°C)	396	360	380	300
Edge coverage, %	41	45.8	34.2	45
Hot plate gel time @ 160 °C @ 210 °C	26 10	57 27	18 5	29 14
Colors			• •	
Application Method	Fluidized Bed	Fluidized Bed	Fluidized Bed	Fluidized Bed Electrostatic Spray
Storage life @ 10 °C , months	18	18	9	12
Floor life @ 23°C, months	9	12	6	3





Excellent Stability



- A longer floor life at higher temperatures saves storage & transport costs
- DK7-0953M has been successfully used in hot & humid environments for years
- Now DK7-20H features the best floor life among any class H capable product

Power Applications

Best and broadest product line for Low and Medium Voltage

Insulation up to 50 kV

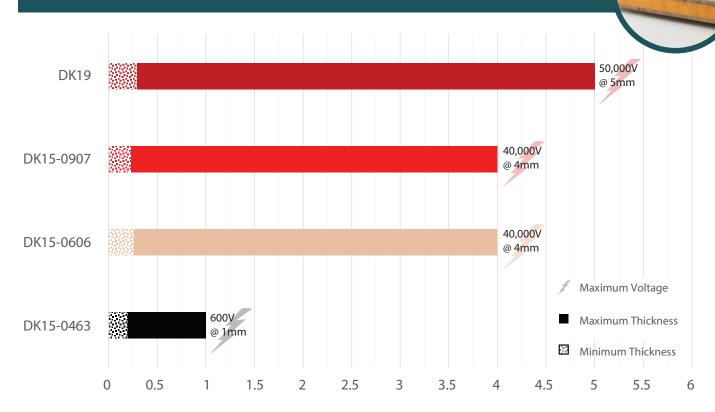


SolEpoxy provides the only coating powders that build up to 5 mm thick

Fusion bonded epoxy is the preferred insulation for busbars because it yields no air gap and no seems.

- Moisture protection
- Thermal conductivity
- Impact and scratch resistant
- Able to insulate bends and shapes
- High productivity and quality

Achievable Coating Thickness





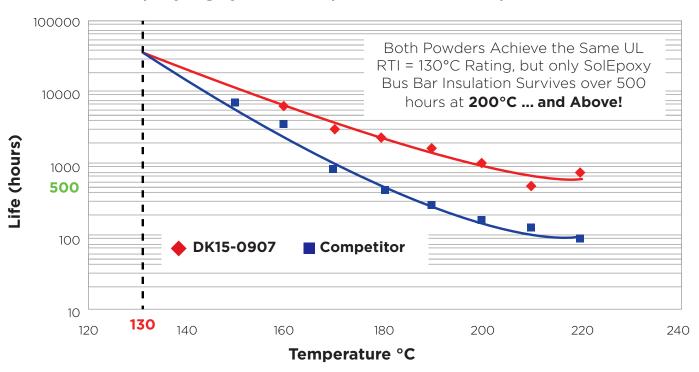
DK15-0907 DK15-0606 DK19 Red DK15-0463

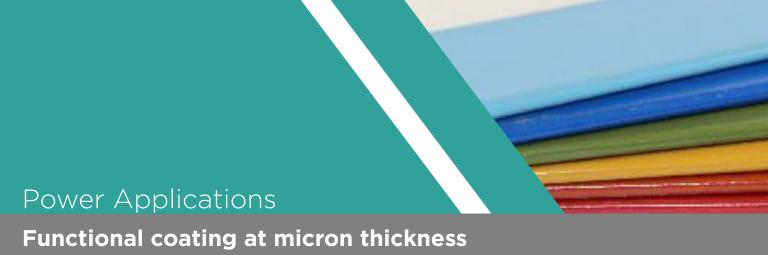
Switchgear, Network Connectors and Busbars

		DK15-0463	DK15-0606	DK15-0907	DK19 Red
Glass Plate Flow (mm)		27	20	19	21
Dielectric Strength (kV/mm)	44	46	46	41
	@ 160 °C @ 210 °C	N/A 55	24 10	44 11	55 12
Preheat Temperature, °C		170-220 °C	170-220 °C	170-220 °C	170-220 °C
Arc Resistance, seconds		130	135	135	168
Colors		•	•	• • •	•
Application Method		Fluidized Bed Electrostatic Spray	Fluidized Bed	Fluidized Bed Electrostatic Spray	Fluidized Bed
Storage Life @ 10 °C, mont	hs	18	18	18	18

Extreme Temperature Durability

SolEpoxy Highly Filled Composite Powders Conquer the Heat





Functional epoxy insulation for applications below 60V





SolEpoxy products provide fusion-bonded insulation



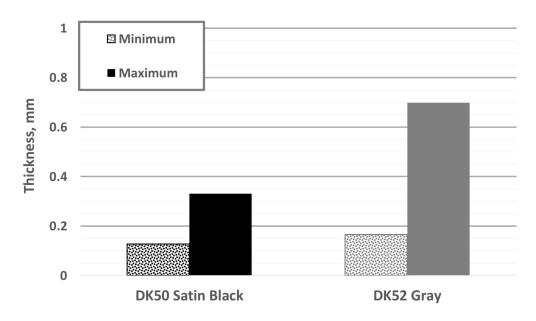
- Seamless & impermeable
- Thin & smooth



DK52 is tough & flexible:

- Does not crack when flexed and bent
- Suitable for very thin conductors
- Even thin coatings have exceptional moisture resistance & dielectric strength

Achievable Coating Thickness





DK50 DK52 DK53

Available in a wide range of colors



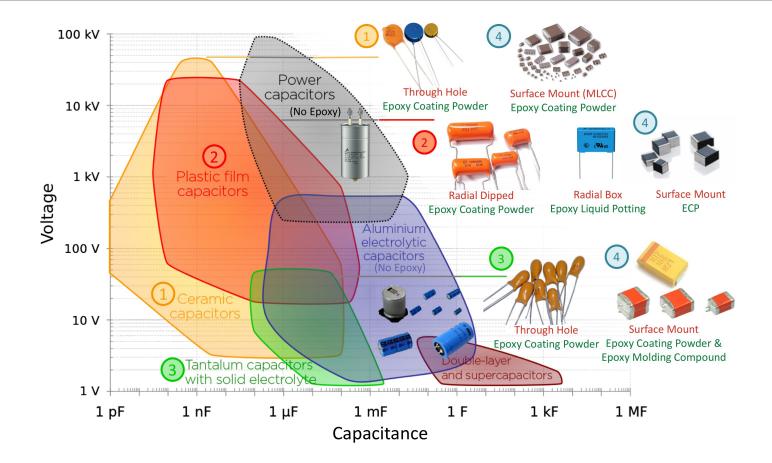
DK53 for thin & uniform functional coatings on cold substrate:

- Apply via electrostatic spray on hot or cold parts
- For design miniaturization with epoxy protection

		DK50	DK52	DK53
Application Method		Spray	Fluidized Bed Spray	Spray
Recommended Preheat Temperature, °C		210	170	25
Recommended Post Cure Temperature,	°C me, minutes	200 2	200 10	180 15
UL 94 V-0			Yes	

Passive Electronics

The inventor of epoxy coating for passive devices



Capacitors



Products for ceramic, film wrap, and tantalum capacitors with the best thermal cycle performance.

Resistors



The Hysol legacy is rooted in products for resistors, including resistor networks, thermistors, and varistors.

Inductors



SolEpoxy DK18-05 is still the industry standard for toroids. Products are also available for binding ferrite potcores.



DK18-05 DK18-0955 DK18-2100 DK18-3000 DK30-0952

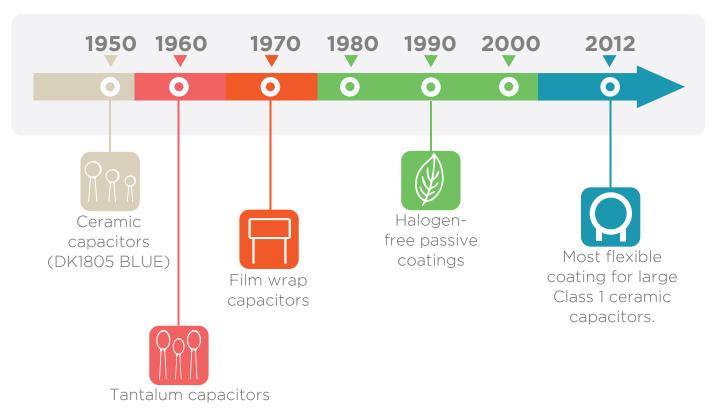
Innovating capacitor coating powder for 65 years







On the shoulders of giants: SolEpoxy upholds the Hysol tradition of excellent materials for passive electronics





For high yield powder metal processing

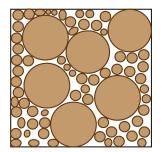
Used in powdered metal components, DK14-2100 was developed as a binding resin to increase green strength.



These shapes are compacted and baked powdered metal cores.

DK14-2100 Brown

- Excellent Green Strength
 Epoxy powder holds the powdered metal together after pressing, before curing.
- Class F Heat Stability
 No degradation in color or physical properties at elevated temperatures approaching 150°C
- Low Moisture Absorption
 Maintains superior physical & magnetic properties when exposed to humidity



Optimal particle size improves green strength after cold pressing



Short curing times for **maximum productivity**



Low shrinkage binding resin reduces core stress to minimize effect on magnetic and inductance properties.

SOLEPOXY TECHNOLOGY CAPABILITY





SOLEPOXY IS YOUR PARTNER IN PROBLEM SOLVING

Phone: 716.372.6300 Toll Free: 800.829.2209 info@solepoxy.com www.solepoxy.com