

## Preliminary Product Information Sheet

### EPO-TEK® OG142-4

*Note: These are typical properties to be used as a guide only, not a specification. Data below is not guaranteed. Different batches, conditions and applications yield differing results.*

**Date:** June 2017      **Rev:** III  
**Material Description:** EPO-TEK® OG142-4 is a thixotropic version of EPO-TEK® OG142.  
**Number of Components:** Single  
**Mix Ratio by Weight:** N/A  
**Specific Gravity:** 1.15  
**Pot Life:** 3 weeks  
**Shelf Life:** One year at room temperature

Recommended Cure	
<b>Iron-Doped Mercury Flood Lamp</b>	<b>&gt; 60 sec.</b> <i>100 mW/cm<sup>2</sup> @ 240-365 nm</i>
Alternative Cures*	
Iron-Doped Mercury Spot Lamp	> 90 sec.
365nm LED Flood Lamp	> 60 sec.
Pulsed Mercury Lamp	> 90 sec.
<b>UV Cure is complete after 24 hours from UV Exposure</b>	
* Contact Technical Services for application-specific variations	

**NOTES:**

- Container(s) should be kept closed when not in use.
- Filled systems should be stirred thoroughly before mixing and prior to use.
- Performance properties (rheology, conductivity, others) of the Products may vary from those stated on the data sheet when bi-pak/syringe packaging or post-processing of any kind is performed. Epoxy's warranties shall not apply to any products that have been reprocessed or repackaged from Epoxy's delivered status/container into any other containers of any kind, including but not limited to syringes, bi-paks, cartridges, pouches, tubes, capsules, films or other packages.
- If product crystallizes in storage, place container in warm oven until crystallization disappears. Please refer to Tech Tip #7 on website.
- Thermal post-cure beneficial - contact [techserv@epotek.com](mailto:techserv@epotek.com) for recommendations.

**MATERIAL CHARACTERISTICS:**      Cure Condition: Varies as required

**PHYSICAL PROPERTIES:**

<b>Color (before cure):</b>	Milky white
<b>Consistency:</b>	Thixotropic paste
<b>Viscosity (23°C) @ 10 rpm:</b>	32,559 cPs
<b>Thixotropic Index:</b>	1.8
<b>Glass Transition Temp:</b>	84 °C (Dynamic Cure:20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min)
<b>Shore D Hardness:</b>	80
<b>Die Shear @ 23°C:</b>	13.3 Kg
<b>Degradation Temp:</b>	391 °C
<b>Weight Loss:</b>	
@ 200°C	0.21 %
@ 250°C	0.11 %
@ 300°C	1.26 %
<b>Suggested Operating Temperature:</b>	< 325 °C (Intermittent)
<b>Particle Size:</b>	≤ 10 microns

**OPTICAL PROPERTIES @ 23°C:**

<b>Spectral Transmission:</b>	≥ 95% @ 520-2,000 nm
<b>Refractive Index (uncured):</b>	1.5122 @ 589 nm

**The data above is INITIAL only - it may be changed at anytime, for any reason without notice to anyone. It is provided only as a guide for evaluation/consideration.**

\*These material characteristics are typical properties that are based on a limited number of samples/batches. All properties are based on the cure indicated above. Some properties may vary as manufactured quantities are scaled up to commercialized production levels.