



## Preliminary Product Information Sheet

### **EPO-TEK® OP2131 (formerly 114-131-1)**

*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:** August 2019  
**Rev:** II  
**No. of Components:** Two  
**Mix Ratio by Weight:** 100 : 40  
**Specific Gravity:** Part A: 1.20      Part B: 0.96  
**Pot Life:** 6 Hours  
**Shelf Life- Bulk:** One year at room temperature  
**Shelf Life- Syringe:** Six months at -40°C

**Recommended Cure: 80°C / 3 Hours**

**Minimum Alternative Cure(s):**  
*May not achieve performance properties listed below*  
 23°C / 2 Days

#### **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 product 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.
- Syringe packaging will impact initial viscosity and effective pot life, potentially beyond stated parameters.
- If product crystallizes in storage, place container in warm oven until crystallization disappears. Please refer to Tech Tip #7 on website.
- **TOTAL MASS SHOULD NOT EXCEED 450 GRAMS**

**Product Description:** A two component, room temperature curing epoxy material.

#### **MATERIAL CHARACTERISTICS\*:**

<b>PHYSICAL PROPERTIES:</b>		<b>Cure condition: 80°C / 3 Hours</b>	
Color (before cure):		Part A: Clear/Colorless	Part B: Clear/Colorless
Consistency:		Pourable liquid	
Viscosity (23°C) @ 100 rpm:		578	cPs
Thixotropic Index:		N/A	
Glass Transition Temp:		22	°C (Dynamic Cure: 20-200°C/ISO 25 Min; Ramp -10-200°C @ 20°C/Min)
Shore D Hardness:		72	
Die Shear @ 23°C:		6.3	Kg
Degradation Temp:		375	°C
Weight Loss:			
	@ 200°C:	0.28	%
	@ 250°C:	1.55	%
	@ 300°C:	7.07	%
Suggested Operating Temperature:		< 300	°C (Intermittent)
<b>OPTICAL PROPERTIES @ 23°C:</b>			
Spectral Transmission:		≥ 97% @ 400-1660	nm
Refractive Index:		1.5313 @589	nm

**The data above is INITIAL only - it may be changed at any time, 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.