

# SCIENTIFICALLY SUPERIOR COMPOSITE DELIVERY

Vista Apex has revolutionized composite delivery with the Phasor™ composite warming system. This unprecedented device uses **near-infrared technology** to rapidly warm even highly filled composites.

- Able to heat composite material to 150°F in seconds
- Warming composite significantly lowers the viscosity of the material, resulting in better adaptation, reduced voids and microleakage, and improved depth of cure
- Materials remain highly sculptable, non-sticky, and easily shaped during manipulation

**Unlike other devices, Phasor™ is not limited to a single brand of composite. This makes the device extremely versatile, not only in quick posterior bulk fills, but traditional incremental layering techniques in aesthetic regions as well.**

# phasor™

Patent# 10,589,829

**Warms Composite In Under 20 Seconds, With Three Heat Settings (Low, Mid and High Flow)**



## PHASOR™ CAN ENHANCE COMPOSITE PLACEMENT FOR ANY PROTOCOL

### Incremental Layering



### Two Layer Bulk-Fill



### Single Layer Bulk-Fill



**VA**  
VISTA | APEX



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# WHY HEAT?

## PROCEDURAL EFFICIENCY

Better placement and handling of composites decreases procedure time.

– Testimonials and beta site testing

## LOWER VISCOSITY

Flowability similar to flowable composites can be achieved with the use of heat.

– Ayub 2014, Rickman 2011

## DURABILITY & WEAR RETENTION

Preheating increases composite microhardness.

– Munoz 2008, Lucey 2010, Nada 2011, Dionysopoulos 2015

## SAFE

Does not damage pulp tissue or cause discomfort.

– Daronch 2007, Rueggeberg 2010

## MINIMIZE VOIDS & MICROLEAKAGE

Reduced chance of secondary caries and better outcomes.

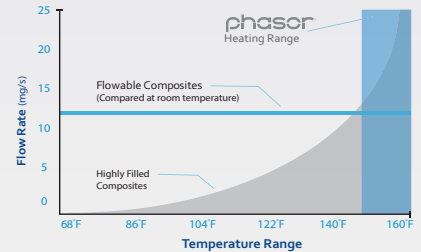
– Choudhary 2011, Wagner 2008, Froes-Salgado 2010

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## VISCOSITY VS. TEMPERATURE For Highly Filled Composites



### Highly Filled

3M Filtek Supreme Ultra\*  
3M Filtek Z250\*  
Dentsply Esthet X HD\*  
Dentsply TPH3\*

### Flowables

Dentsply SureFill SDR Flow\*\*  
Ivoclar Tetric EvoFlow\*\*  
Heraeus Venus\*\*  
Dentsply THP3 Flow\*\*\*

| FEATURES                   | BENEFITS OF USING HEAT                                                                      | PROOF                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Depth of Cure              | Fill restorations faster by increasing the depth of cure and reducing curing time.          | <sup>4</sup> Burtcher 2005, <sup>2</sup> Munoz 2008                                     |
| Flowability                | When heated, highly filled composites flow up to 10X better.                                | <sup>3</sup> Lucey 2010                                                                 |
| Increased Polymerization   | Significantly higher monomer conversion values. Dramatic increase in polymerization rates.  | <sup>5</sup> Trujillo 2003, <sup>6</sup> Daronch 2005                                   |
| Decreased Voids            | Heating significantly reduces the chance of secondary caries.                               | <sup>9</sup> Choudhary 2011, <sup>10</sup> Wagner 2008, <sup>8</sup> Froes-Salgado 2010 |
| Color + Stability          | Heating will NOT modify color or stability properties of composite material.                | <sup>1</sup> Mundim 2011                                                                |
| Micro-Hardness             | Heating results in shorter curing times and enhances subsequent surface hardness.           | <sup>2</sup> Munoz 2008, <sup>3</sup> Lucey 2010                                        |
| Viscosity -vs- Temperature | Heating makes it easier to place material and results in better adaptation to cavity walls. | <sup>1</sup> Lucey 2010                                                                 |
| Heating Safety             | Heating will NOT damage pulp tissue or cause discomfort. No other safety concerns.          | <sup>7</sup> Daronch 2007, <sup>11</sup> Rueggeberg 2010                                |

**COMPATIBLE WITH ANY BRAND OF COMPOSITE!**  
**ORDER YOUR PHASOR™ TODAY!**

### Fast

Heats composite in under 20 seconds.

Easily change from low, mid or high flow settings.

### Battery Operated

Battery operated and cordless.  
Long lasting rechargeable battery.

### Cool To The Touch

Unlike warmer bases, the device is not hot to the touch.



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