

WHY SHOULD I USE THE CALSET COMPOSITE WARMER?

The Calset Composite Warmer increases the flow of composites up to 68%. The reason this is so important is that it makes the composite so much easier to work with. Now a heavily filled material can be used on posterior teeth with no compromise to the strength of the restoration.

By warming composite, the properties change in a positive way. Once the composite has been warmed to 130°F or 140°F, and the composite is cured immediately after placement, a greater depth of cure is experienced in the same amount of curing time, hence a much stronger restoration.

When the composite is warmed, it becomes more flowable. By becoming more flowable, the composite has much better adaptation to the tooth structure, which decreases microleakage significantly. When a flowable is used prior to composite placement, the shrinkage is much greater since the resin is very thin and there is very little filler. When composite is warmed, you are still using a heavily filled material, therefore the shrinkage is much less.

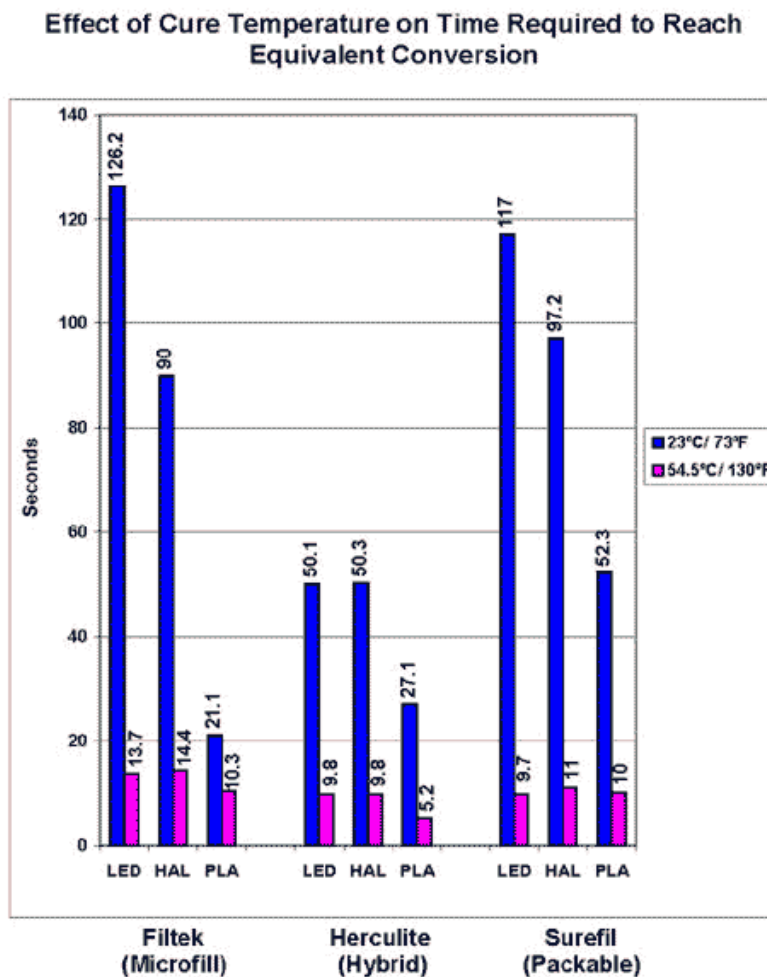


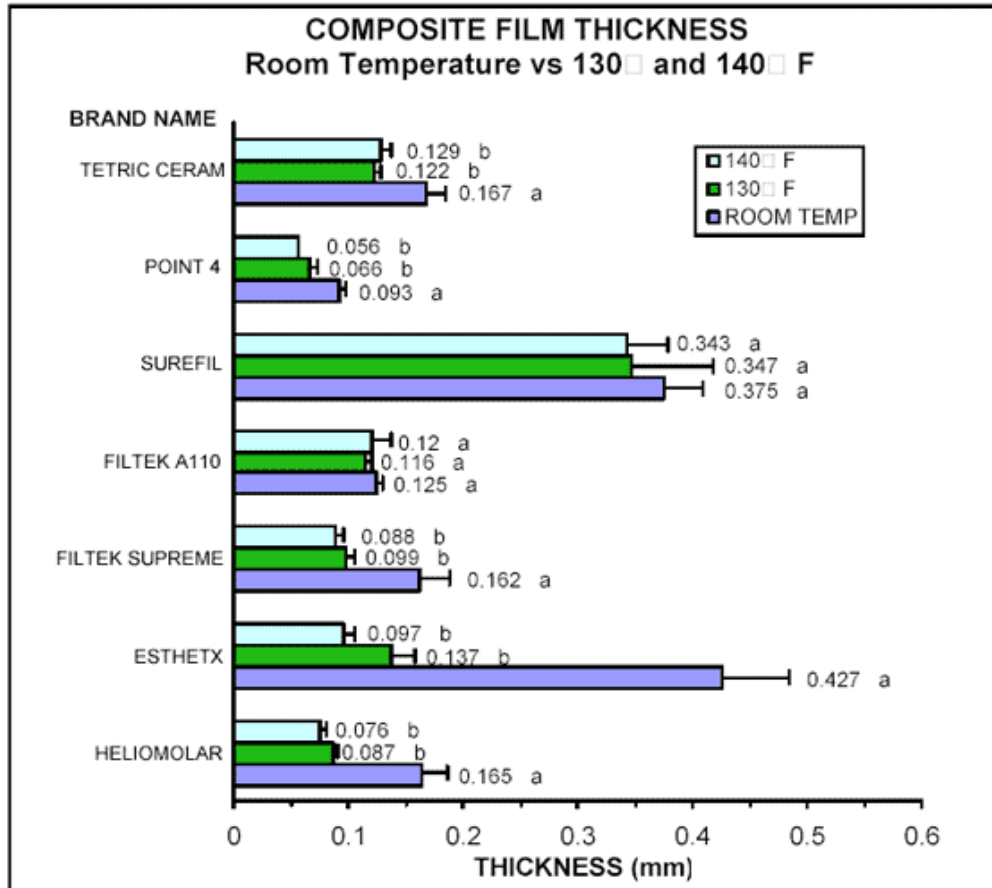
Figure 2. Research by: Prof. Jeffrey W. Stansbury, Ph.D University of Colorado Health Sciences. Director, Biomaterials Research Center

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The bottom bar represents the composite at room temperature.

Middle bar at 130F Top bar 140F

As you can see, some of the results are much more dramatic



Tetric: 27% more flowable once heated to 130F

Point 4: 29% more flowable once heated to 130F

Surefil: 7% more flowable once heated to 130F

Filtek A110: 7% more flowable once heated to 130F

Filtek Supreme: 39% more flowable once heated to 130F

Esthet-X: 68% more flowable once heated to 130F

Heliomolar: 47% more flowable once heated to 130F

By Dr. Frederick Rueggeberg