



Since 1921  
Towards Century of Health

The new  
**King of Temporaries**

Stronger. Faster. Smarter.



**TEMPSMART™**

Dual-Cured Composite for Temporary Crown & Bridge

# When Strength meets Beauty

## TEMPSMART™

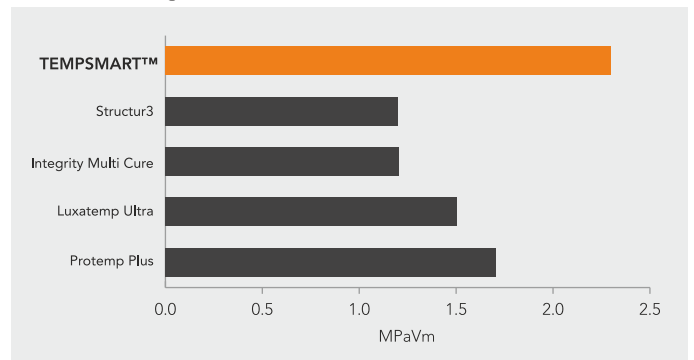
Introducing **TEMPSMART™**: an innovative, dual-cured, bis-acrylic Composite Temporary Crown and Bridge Material in 1:1 ratio without plasticisers using Micro-Filled Resin (MFR) and Nano-Filler Technology.

### Strong and Durable:

The high density polymer network of TEMPSMART™ makes it a strong material, ideal for any single or multi-unit temporary restoration. It eliminates the risk of broken temporaries and offers clinical longevity.

<b>Fracture Toughness</b>	2.3 MPa√m
<b>Flexural Strength</b>	101.4 Mpa
<b>Gloss Retention</b> (After Brushing Cycles)	47.5 Gloss Unit
<b>Compressive Strength</b>	446 MPa

### Fracture Toughness



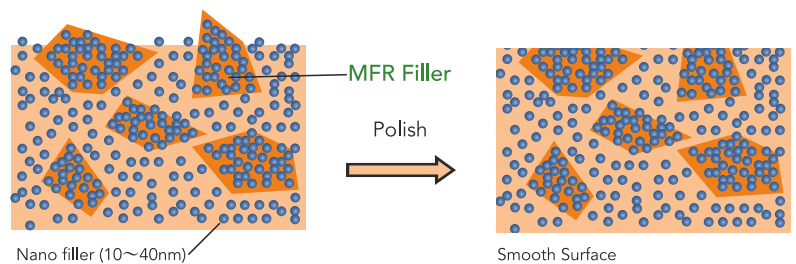
R&D Dept. GC Corporation

### Beautiful Aesthetics and High Gloss Retention:

The revolutionary combination of micro-filled resin (MFR) and nano-filler technology maintains a smooth surface after polishing and gives beautiful aesthetics to the restoration.

### Filler Technology

TEMPSMART™ (Nano filler and MFR filler Technology)



### Beautiful Aesthetics:



TEMPSMART™

Structur3

Integrity Multi Cure

Integrity

Luxatemp Ultra

Protemp Plus

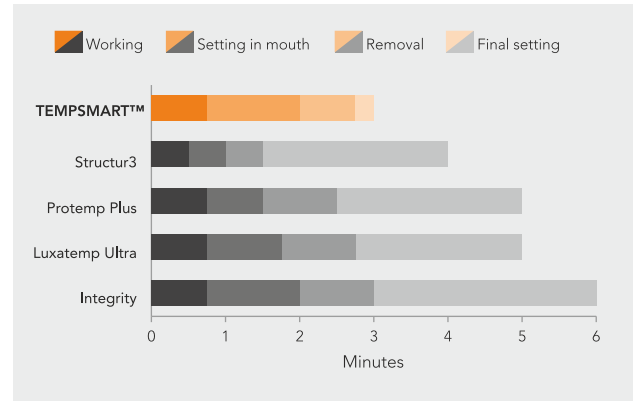
TEMPSMART™ maintains high gloss retention after polishing.

## Fast and Smart in 3 minutes:

TEMPSMART™ is dual-cured to allow adequate working time, yet rapid set, to give you the shortest overall chairside set time. A three-unit bridge can be completed in just 3 minutes.

Its thin oxygen inhibition layer allows for better polymerisation that makes it non sticky and easy to handle.

## Shortest Provisional Chairtime



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## TEMPSMART™ Technique Guide: Direct Chairside Method



1. Take a putty impression before preparation of the abutment teeth.



2. Preparation of abutment teeth. Apply a separating medium.



3. After bleeding the cartridge, inject TEMPSMART™ into the impression.



4. Seat the impression within 45 secs. of start of mix.



5. Remove impression 2 mins. - 2 mins. 30 secs. after start of mix. Remove any residual material at this time.



6. Once removed from the mouth, complete polymerisation by light-cure for 5 secs. per tooth.



7. Trim excess material.



8. Finish with silicon points and polish using a goat's hair wheel. Alternatively, apply GC OPTIGLAZE colour.



9. Cement temporary using FREEGENOL temporary cement.

Dr. Chee Chang

■ **Is TEMPSMART™ repairable?**

Yes. It can be repaired with TEMPSMART™ or a high strength flowable composite, like Solare Flo or G-aenial™ Universal Flo.

■ **Is TEMPSMART™ BPA free?**

Yes, TEMPSMART™ is a bis-acrylic composite containing UDMA resin.

■ **Does TEMPSMART™ require refrigeration?**

No. TEMPSMART's unique chemistry is very stable, allowing for a 2-year shelf life stored at room temperature.

■ **What is the volumetric shrinkage of TEMPSMART™?**

TEMPSMART™ has an extremely low volumetric shrinkage of 0.86%, ensuring an accurate fit.

■ **Can TEMPSMART™ be glazed?**

Yes. TEMPSMART™ can be glazed using EQUIA® Forte Coat or G-COAT PLUS™. This may be advantageous for longer term temporaries, to protect the provisional in situations where patients might be prone to staining, e.g. coffee, wine etc. If characterisation of your temporary is required, GC OPTIGLAZE colour is recommended.

■ **Why is TEMPSMART™ not sticky?**

TEMPSMART™ is non-sticky and extremely easy to handle, as it does NOT contain any plasticiser, due to new initiation technology. Plasticisers are commonly used to stabilise these temporary materials. However, they prevent complete polymerisation of the material, creating a very thick and sticky air inhibition layer after setting.

■ **TEMPSMART™ is not sticky after polymerization**



2mins. after self curing

■ **What type of temporary restorations can TEMPSMART™ be used for?**

TEMPSMART™ has exceptional fracture toughness and flexural strength making it the ideal material for all temporary restorations, e.g. single-unit crowns, bridges, inlays, onlays, veneers, implants and long term temporisations.

**TEMPSMART™**

Temporary crown and bridge material  
1:1 ratio Cartridge 48ml x 1,  
with 16 mixing tips  
(Cartridge available in  
A1, A2, A3 and A3.5 shades)



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