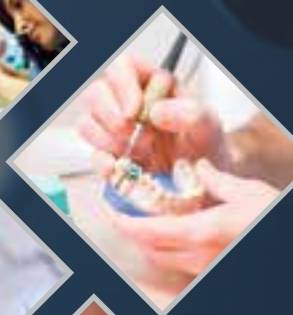
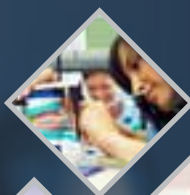




# St. George Technology

Performance Polymers

**Excel Formula™** Dental Products





## Welcome to St. George Technology

Our world class scientists continuously research and develop our extensive line of plastics, acrylics, and specialized polymers to accommodate various industries including but not limited to: Dental, Medical, Industrial, Casting, Cosmetic, and Aviation. At St. George, we make technology work for you!

We manufacture our **Excel Formula™** Denture base products in our unique polymer reactors. This gives us complete control over product specifications, quality, performance, and consistency. Many other companies, who are regarded as manufacturers, simply buy bulk polymer and re-label it. Laboratories who have tried our products find them to have a super-fine particle size that gives our range of acrylics unique properties and working characteristics. This enables technicians to constantly produce high quality work, quickly and efficiently!

- ◆ Manufacturing Excellence For More Than 30 Years!
- ◆ We Make It All Ourselves!



St. George Technology is part of the Makevale Group, Inc.

## Excel Formula™

# Performance Polymers for Dental Labs

**Excel Formula™** is a range of easy-to-use high-performance polymers that meets the core needs of the dental laboratory and enables the production of long lasting, high quality work, quickly and efficiently.

Each product uses the best chemistry for the task, selected through the expertise of a global company with a strong commitment to research and development.

The chemistry and super-fine particle size of our acrylics deliver unique properties and working characteristics, which include:

- The most translucent acrylic available
- Perfect color matching across the range
- Unrivalled color stability both on curing and in use over time

**Excel Formula™** Performance Polymers for Dental Laboratories include:

- |             |               |                 |
|-------------|---------------|-----------------|
| ◆ Heat Cure | ◆ Pourable    | ◆ Lab Putty     |
| ◆ Ultra-Hi  | ◆ Orthodontic | ◆ Tray Material |
| ◆ Repair    | ◆ Waxes       |                 |



St. George Technology  
Performance Polymers

ExHC

Excel Formula™

# Heat Cure Denture Base Material

Finally, a higher impact heat-cure denture base that combines superior workability with a quick cure option! Excel Formula™ Heat Cure denture base is a lab technician's dream. Guaranteed quality performance at competitive rates. Saves you time, effort, and money.

- ◆ 3 curing options: quick cure, overnight or microwavable
- ◆ Great impact strength
- ◆ Reaches snap dough consistency within 5 minutes, workable for another 30min.
- ◆ Highly color stable with matching repair and reline resins
- ◆ Super-fine particle size enhances strength and eliminates porosity
- ◆ Low residual monomer



Light  
Veined

Veined

Reddish  
Veined

Dark  
Veined

Clear

## Available Products:



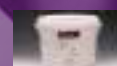
**Universal Pack** - 1 Kilo (2.2 lbs) powder, 500 mL (1 pint) liquid and directions for use

■ 10111-Veined ■ 10112-Light Veined ■ 10113-Reddish Veined ■ 10114-Clear ■ 10115-Dark Veined



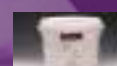
**1 Kilo Powder Only (2.2 lbs.)**

■ 10211-Veined ■ 10212-Light Veined ■ 10213-Reddish Veined ■ 10214-Clear ■ 10215-Dark Veined



**10 Kilo Powder Only (22 lbs.)**

■ 10221-Veined ■ 10222-Light Veined ■ 10223-Reddish Veined ■ 10224-Clear ■ 10225-Dark Veined



**5 x 10 Kilo Powder Only (110 lbs.)**

■ 10231-Veined ■ 10232-Light Veined ■ 10233-Reddish Veined ■ 10234-Clear ■ 10235-Dark Veined



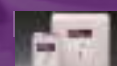
**500 mL Liter Liquid Only**

■ 10310



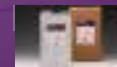
**1 Liter Liquid Only**

■ 10340



**4 x 1 Liter Liquid Only**

■ 10350



**5 Liter Liquid Only**

■ 10320







St. George Technology  
Performance Polymers

ExHI

Excel Formula™

# Ultra-Hi

## Heat-Cure Denture Base Material

The Ultra-Hi material combines high impact strength along with exceptional flexural strength. Whether your patient is a vigorous chewer or constantly drops the denture, this will withstand the test of time, while looking natural and aesthetically pleasing. Move up to the platinum standard and try our Excel Formula™ Ultra-Hi Denture Base Material today!

- ◆ Ultra-Hi high impact strength
- ◆ Exceptional flexural strength
- ◆ Cadmium free
- ◆ A range of realistic lifelike shades found in natural tissue
- ◆ Flexible curing options
- ◆ Low residual monomer
- ◆ Long-term shade stability
- ◆ Precise shade matching repair and reline resins

### Available Products:



#### Universal Pack - 1 Kilo (2.2 lbs.) Powder, 500 mL (1 Pint) Liquid

■ 40111-Veined ■ 40112-Light Veined ■ 40113-Reddish Veined ■ 40115-Dark Veined



#### 1 Kilo Powder Only (2.2 lbs.)

■ 40211-Veined ■ 40212-Light Veined ■ 40213-Reddish Veined ■ 40215-Dark Veined



#### 3 Kilo Powder Only (6.6 lbs.)

■ 40221-Veined ■ 40222-Light Veined ■ 40223-Reddish Veined ■ 40225-Dark Veined



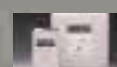
#### 12 Kilo Powder Only (26.4 lbs.)

■ 40231-Veined ■ 40232-Light Veined ■ 40233-Reddish Veined ■ 40235-Dark Veined



#### 1 Liter Liquid Only

■ 40340

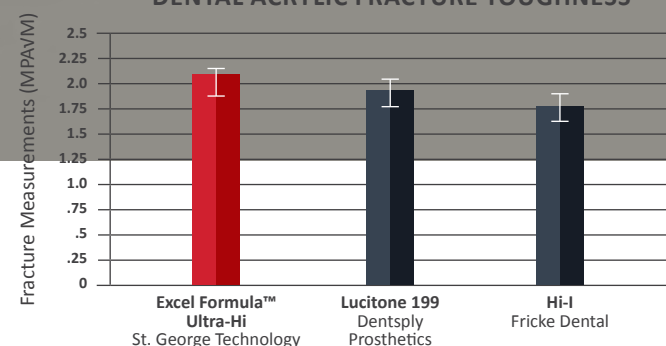


#### 4x1 Liter Liquid Only

■ 40350



### DENTAL ACRYLIC FRACTURE TOUGHNESS



\*Mpa stands for megapascal, a unit of strength (force/unit area). 1MPa = 145 psi. All results were verified by the ADA and published in their Professional Product Review Winter 2009 edition. Lucitone 199 & Fricke HI-I are not registered trademarks of St. George Technology.



St. George Technology  
Performance Polymers

ExHIP

Excel Formula™

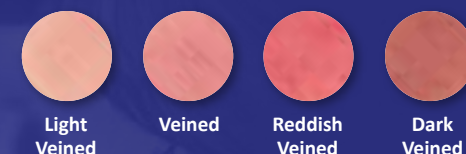
# Hi-Impact Pourable

World's first dental acrylic to achieve high strength and high impact resistance from a cold cure formulation. More than 4x stronger and 60% tougher than conventional cold-cure denture base polymers. Offers a 75% time reduction from mixing to removal from flask, improving lab productivity and reduces costs.

- ◆ High impact strength
- ◆ Exceptional flexural strength
- ◆ 4-5 minute pour time/20 minute short curing time
- ◆ Super-fine particle size enhances strength and tooth bond
- ◆ Cadmium free
- ◆ Easy to mix to a perfect consistency
- ◆ Molecular structure eliminates porosity and minimizes shrinkage
- ◆ Exceptional color stability
- ◆ Silicon free

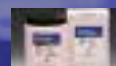


## Available Products:



Universal Pack - 1 Kilo (2.2 lbs.) Powder, 500 mL (1 Pint) Liquid

■ 24111-Veined ■ 24112-Light Veined ■ 24113-Reddish Veined ■ 24115 Dark Veined



1 Kilo Powder Only (2.2 lbs.)

■ 24211-Veined ■ 24212-Light Veined ■ 24213-Reddish Veined ■ 24215 Dark Veined



10 Kilo Powder Only (22 lbs.)

■ 24221-Veined ■ 24222-Light Veined ■ 24223-Reddish Veined ■ 24225 Dark Veined



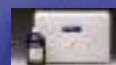
500ml Liter Liquid Only

■ 24330



1 Liter Liquid Only

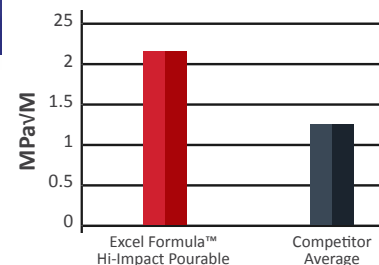
■ 24340



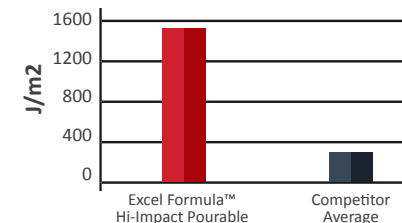
5x1 Liter Liquid Only

■ 24350

## FRACTURE TOUGHNESS



## FRACTURE WORK





St. George Technology  
Performance Polymers

ExP

Excel Formula™

# Pourable Denture Base Material

State-of-the-science polymer now brings unprecedented performance to pourable acrylics. With the Excel Formula™ Pourable material, lab technicians can at last enjoy a pourable denture base that mixes quickly to produce the perfect consistency needed for optimum flow and unparalleled performance.

- ◆ 4-5 minute pour time/20 minute short curing time
- ◆ Super-fine particle size enhances strength and tooth bond
- ◆ Cadmium free
- ◆ Easy to mix to a perfect consistency
- ◆ Molecular structure eliminates porosity and minimizes shrinkage
- ◆ Exceptional color stability



Light  
Veined

Veined

Reddish  
Veined

Dark  
Veined

Clear

## Available Products:



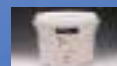
**Universal Pack - 1 Kilo (2.2 lbs.) Powder, 500 mL (1 Pint) Liquid**

■ 23111-Veined ■ 23112-Light Veined ■ 23113-Reddish Veined ■ 23114 Clear ■ 23115 Dark Veined



**1 Kilo Powder Only (2.2 lbs.)**

■ 23211-Veined ■ 23212-Light Veined ■ 23213-Reddish Veined ■ 23214 Clear ■ 23215 Dark Veined



**10 Kilo Powder Only (22 lbs.)**

■ 23221-Veined ■ 23222-Light Veined ■ 23223-Reddish Veined ■ 23224 Clear ■ 23225 Dark Veined



**1 Liter Liquid Only**

■ 23340



**5x1 Liter Liquid Only**

■ 23350





St. George Technology  
Performance Polymers

ExR

Excel Formula™

# Repair Denture Base Material

It's quick. It's easy. It's strong - and it matches the entire Excel Formula™ product range! The shade is so precise that you will not be able to see the finish line. Our Repair Material bonds well, and its cross-linked polymer provides enhanced strength with excellent flow characteristics for quick and easy repairs.

- ◆ Self-cure repair & reline resin
- ◆ Cross-linked polymer provides enhanced strength
- ◆ Excellent flow characteristics ensure quick repair
- ◆ Super-fine particle size gives great bond to teeth
- ◆ Powder mixes easily into liquid minimizing air entrapment
- ◆ Good color stability for long-lasting aesthetics



## Available Products:



**Starter Pack** - 350 grams (3/4 lb) powder, 250 mL (1/2 pint) liquid

■ 11101-Veined ■ 11102-Light Veined ■ 11103-Reddish Veined ■ 11105-Dark Veined



**1 Kilo Powder Only (2.2 lbs.)**

■ 11211-Veined ■ 11212-Light Veined ■ 11213-Reddish Veined ■ 11215-Dark Veined



**10 Kilo Powder Only (22 lbs.)**

■ 11221-Veined ■ 11222-Light Veined



**500mL Liquid Only**

■ 11310



**1 Liter Liquid Only**

■ 11340



**4x1 Liter Liquid Only**

■ 11350







St. George Technology  
Performance Polymers

Ex0

Excel Formula™

# Orthodontic Denture Base Material

Our Orthodontic Material has been manufactured to a super-fine particle size which eliminates slumping during build-up. This material excels in the Salt-and-Pepper technique and with its ease of control gives technicians that consistent result they desire!

- ◆ Self-cure resin with superior clarity
- ◆ Super-fine particle size eliminates slumping during buildup
- ◆ 10 min. quick cure in hydroflask
- ◆ Powder mixes easily into liquid minimizing porosity
- ◆ Buffs to a high surface sheen within minutes
- ◆ High level of strength



## Available Products:



**Lab Pack** - 1 Kilo (2.2 lbs) powder, 500 mL (1 pint) clear liquid

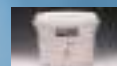
■ 12118 with clear liquid



**1 Kilo Powder Only (2.2 lbs.)**

■ 12210

■ 12230 LWT (Longer Working Time)



**10 Kilo Powder Only (22 lbs.)**

■ 12220

■ 12240 LWT (Longer Working Time)



**1 Liter Liquid Only**

■ 12348 Clear



**4x1 Liter Liquid Only**

■ 12358 Clear



Clear







St. George Technology  
Performance Polymers

ExW

Excel Formula™

# Waxes

## Bite Rims & Baseplate Wax

Our waxes have been specially formulated to offer higher temperature stability while keeping the superior traits of not cracking, flaking, or tearing. Our waxes are offered in an esthetically pleasing Pink shade with our Bite Rims matching our Baseplate Wax. These waxes are known for their ease of use and consistency while pleasing not only the technician but the doctors and patients. All waxes have been formulated for great impression retention as well as boiling out cleanly after use.

### Available Products:



#### Excel Formula™ Baseplate Wax

■ 15000 - Regular

■ 15050 - Tough



#### Excel Formula™ Wax Bite Rims

■ 15100 - Box of 50

■ 15150 - Box of 100



Pink

### Bite Rims

- ◆ Pink preformed bite rims
- ◆ Carves clean and won't break at try-in
- ◆ Excellent impression retention
- ◆ Comes in Box of 50 & 100 units
- ◆ Boils out cleanly leaving no oily residue

### Baseplate Wax

- ◆ Premium baseplate wax with high temperature stability
- ◆ Easily moldable in softened state, does not flake, crack, or tear
- ◆ Higher strength keeps from distorting in mouth
- ◆ Carves and trims nicely at room temperature





St. George Technology  
Performance Polymers

ExP

Excel Formula™

# Lab Putty Dental Material

Excel Formula™ Lab Putty introduces yet another level of performance and excellence to the lab. With a great chemical makeup and Shore hardness of 85, you are guaranteed to receive strong and accurate results time after time.

- ◆ Fine-grained material providing great detail and accuracy
- ◆ Offers a shore hardness of 85
- ◆ Catalyst blends easily into putty leaving hands grease-free
- ◆ 2-3 minutes of working time / sets in 8-10 minutes
- ◆ Premium material at a competitive price

## Available Products:



1.6 Kilo Base Putty (3.52 lbs.) and Scoop

■ 30101



10 Kilo Base Putty (22 lbs.)

■ 30120



4 x 60mL Catalyst

■ 30130



60mL Catalyst

■ 30140



Pink





St. George Technology  
Performance Polymers

ExSR

Excel Formula™

# Soft Reline Material

This kit contains a long-term Soft Relining Material based on additional curing silicones in an auto-mixing cartridge. Soft Reline is suitable for use on all synthetic PMMA-based appliances for fast and easy fabrication of permanent soft relines; chair-side or indirect use in the dental laboratory. The Excel Formula™ Soft-liner is a resilient material that is suitable for old or new, upper or lower dentures.

- ◆ Self-Curing Soft Reline Material that Requires No Heat!
- ◆ 50ml Cartridge and Tips Allow for Auto-mixing and Dispensing
- ◆ Extremely Soft Feel with High Durability
- ◆ Process in the Lab or Chair-side in Patients Mouth
- ◆ Primer Creates Exceptional Bond Between Reline and Denture
- ◆ Stain, Tear, and Odor Resistant



## Available Products:



**Material Kit** - 50 mL cartridge of Soft Reline Material, 5 mL bottle of Primer, 5 mL bottle of Varnish Base, 5 mL bottle of Varnish Catalyst, Application Accessories, and directions for use  
■ 30200



**Refill Kit** - 50 mL cartridge of Soft Reline Material, 6 Auto Mixing Application Tips, and directions for use  
■ 30201



**Application Tools** - Brush Handle, 2 Bags of Brushes, and 2 Plastic Mixing Trays  
■ 30220



**Primer** - 5 mL bottle of Primer  
■ 30230



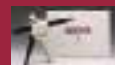
**Varnish Base and Catalyst** - 5 mL of Varnish Base and a 5 mL of Varnish Catalyst  
■ 30240



**Mandrell Bit**  
■ 30250



**Rubint Bit**  
■ 30260



**Application Gun**  
■ 30270



Pink

AFTER RELINING

BEFORE RELINING







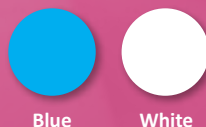
St George Technology  
Performance Polymers

EXT

Excel Formula™

# Tray Material

- ◆ Self-curing custom tray acrylic available in blue & white
- ◆ Tray Material mixes easily (Doesn't stick to hands or spatula)
- ◆ Fast-acting once mixed, ready for shaping in less than 2 minutes
- ◆ Super-fine particle size creates a smooth tray that requires minimal trimming and polishing
- ◆ Highly durable tray ready for use immediately after trimming



## Available Products:



**Lab Pack - 1 Kilo (2.2 lbs.) Powder, 500 mL (1 Pint) Liquid**

■ 14100-Blue ■ 14110-White



**1 Kilo Powder Only (2.2 lbs.)**

■ 14200-Blue ■ 14210-White



**3 Kilo Powder Only (6.6 lbs.)**

■ 14220-Blue ■ 14230-White



**1 Liter Liquid Only**

■ 14340



**4 x 1 Liter Liquid Only**

■ 14350

## Lab Product Accessories



### Excel Formula™ Isolating Solution - Separating Agent/Tin Foil Substitute

This superior tin foil substitute allows for easy separation of acrylic appliances from stone models. It is fast drying and only requires one coat. The nice continuous flow permits solution to penetrate and gel on stone without sticking to teeth or metal. This product is both alcohol-free and water-soluble.

- ◆ Ready to Use & Requires Only One Coat
- ◆ Forms Tough Film That will Not Flake or Lift
- ◆ Alcohol Free & Water Soluble
- ◆ Does Not Stick to Teeth or Metal

#### Available Products:

**5 Liter (1.32 Gallons)**

■ 10420



### Acrylic Shade Guide

This shade guide is made out of our Heat-Cure material in our 5 life-like shades: Light Veined, Veined, Reddish Veined, Dark Veined, and Clear. These tabs match all of our Excel Formula™ Acrylic products.

#### Available Products:

**Excel Formula™ Acrylic Shade Guide**

■ 13000



### Denture Bags

Purchase our Excel Formula™ branded poly bags to go along with our Premium Denture base materials!

#### Available Products:

**Denture Bags - 50 Count**

■ 13050

**Denture Bags - 100 Count**

■ 13100



St George Technology  
Performance Polymers

Makevale began over thirty years ago as a UK family business and our commitment to innovation soon saw rapid expansion. Today we're an industry leader in the development and production of custom-made polymers for dental, medical, casting and industrial applications.

We invented the world's first cadmium-free dental polymer and, through extensive research, continue to bring pioneering products to the market. Makevale is one of very few companies producing high-grade PMMA for medical use and we also private label for the majority of the top dental firms worldwide.

We have expanded into America, Europe and Asia, but remain the last fully independent, UK-owned acrylic manufacturer in Europe. Our products include lightweight resins tough enough for use in submarine cockpits, but which retain superb optical clarity necessary for casting delicate items. Through constant diversification we are now significant suppliers to the acrylic nails, glue, molding, glass transport and coatings industries.

Our vast technical knowledge, strong customer liaison, inventiveness and high levels of service mean we can move quickly on ideas. Our minds are always focused on the future and innovation is a core belief!

## Locations Worldwide



# Sample Order Form

Visit us online at [www.St.GeorgeTechnology.com](http://www.St.GeorgeTechnology.com) to make a sample request.

*YES! Please send me a FREE sample of the Excel Formula™ Premium Acrylic product of my choice in the shade indicated below:*

**Excel Formula™ Ultra-Hi Heat-Cure Denture Base Material:**

☐ Veined ☐ Light Veined ☐ Reddish Veined ☐ Dark Veined

**Excel Formula™ Heat-Cure Denture Base Material:**

☐ Veined ☐ Light Veined ☐ Reddish Veined ☐ Dark Veined ☐ Clear

**Excel Formula™ Pourable Denture Base Material:**

☐ Veined ☐ Light Veined ☐ Reddish Veined ☐ Dark Veined ☐ Clear

**Excel Formula™ Auto-Cure Denture Repair Material:**

☐ Veined ☐ Light Veined ☐ Reddish Veined ☐ Dark Veined

**Excel Formula™ Auto-Cure Orthodontic Material:**

☐ Clear

**Excel Formula™ Wax:**

☐ Baseplate - Regular ☐ Baseplate - Tough ☐ Bite Rims

**Excel Formula™ Tray Material:**

☐ Blue ☐ White

Please print your information

Name of Laboratory: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Position: \_\_\_\_\_

Street Address: \_\_\_\_\_

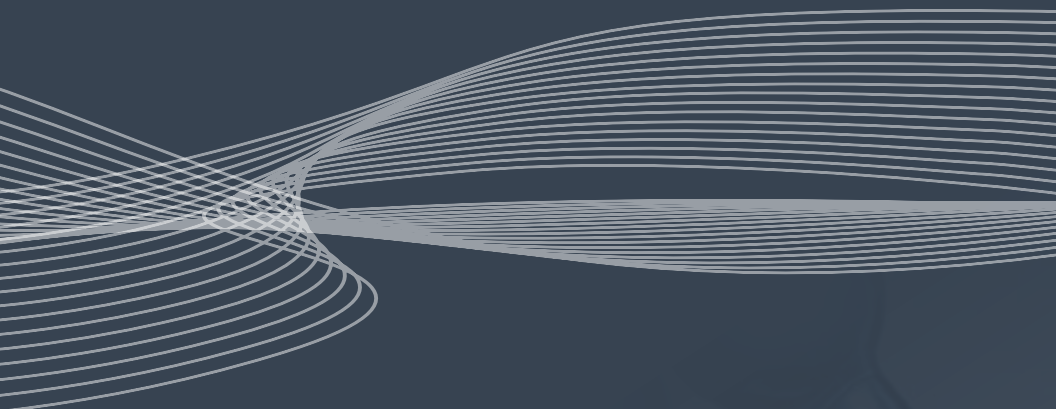
City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_

Dealer Name: \_\_\_\_\_

Fill out this form and fax it to:  
910.397.0791 or mail it to PO Box 12410, Wilmington, NC 28405  
or visit our website at [www.StGeorgeTechnology.com](http://www.StGeorgeTechnology.com).



[www.StGeorgeTechnology.com](http://www.StGeorgeTechnology.com)

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**St. George Technology**  
Performance Polymers

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