

# Smart Spacer<sup>®</sup>

Internal Dentin Die Spacer & Stump Shade



Photo courtesy of Finish Line Productions and Lukenadi Racing

**Attention:** E.max<sup>®</sup>, Cerpress<sup>®</sup>, Zirconia and all other pressable ceramic technicians.  
Go the distance with a proven system that saves wear and tear on your profit margin!

## **High Performance Statistics:**

### **Speed:**

- Dries in 15 seconds flat!
- Cuts at least 15 minutes off your pressable ceramic preparation.

### **Fuel Economy:**

- A 10 shade kit will save up to \$4,000.00 in alternative stump material and hundreds of man hours.
- Estimated CPS (Cost Per Stump (die)): 8 to 14.6 cents!

### **Precision:**

- 12 microns per coat.
- Eliminates the necessity for making a second die for color determination.

### **Accuracy:**

- Cross References to IPS Empress<sup>®</sup> and E.max<sup>®</sup> (ND) Stump Shade materials; Vita<sup>®</sup>, Chromascop<sup>®</sup> Shade Guides.
- Use colors to make your own laminated shade guides to give to the dentist.

### **Colors:**

- Available in up to twelve shades! Kits available in either 4 or 10 shades!

### **Performance Accessories:**

- Comes with Taub Die Hardener, True Release Die Lubricant, True Blue Surfactant, Thinner, Rubber Sep peelable die spacer (in 10 shade kit), White die spacer SSW (in 10 shade kit), Instructions, Shade Reference Chart and MSDS.



**TAUB**  
PRODUCTS

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## Color Reference Chart

This system color matches various tooth shade guides and stump guides enabling better color perception of the porcelain restoration. The color of the die stone and/or die spacers of other systems will no longer negatively influence the color of the ceramic when SMART SPACER<sup>®</sup> is used.

| SMART SPACER <sup>®</sup> SHADES | IPS NATURAL DIE MATERIAL <sup>®</sup> | IPS EMPRESS <sup>®</sup> | CHROMASCOP <sup>®</sup> | VITA <sup>®</sup>                     | OPTIMAL <sup>®</sup> Prep Shade Check Guide |
|----------------------------------|---------------------------------------|--------------------------|-------------------------|---------------------------------------|---|
| SS 1                             | ND 3                                  | ST 1                     | 210-240,<br>310-320     | B3, B4                                | PS 4  |
| SS 2                             | ND 4                                  | ST 2                     | 330                     |                                       | PS 8  |
| SS 3                             | ND 5                                  | ST 3                     | 340                     |                                       | PS 9  |
| SS 4                             |                                       | ST 4                     | 520                     | A4,<br>C4                             | PS 2  |
| SS 5                             | ND 8                                  | ST 5                     | 530, 540                |                                       | PS 3  |
| SS 6                             | ND 6                                  | ST 6                     |                         |                                       | PS 5  |
| SS 7                             |                                       | ST 7                     |                         |                                       | PS 6  |
| SS 8                             | ND 7                                  | ST 8                     | 410-440,<br>510         | A2, A3, A3.5,<br>C1, C2, C3,<br>D1-D4 | PS 1  |
| SS 9                             | ND 2                                  | ST 9                     | 110-140                 | A1,<br>B1, B2                         | PS 7  |
| SS 10                            | ND 1                                  |                          |                         |                                       |   |
| SS 11                            | ND 9                                  |                          |                         |                                       |   |
| SS W (WHITE)                     |                                       |                          |                         |                                       |   |
| SS T (THINNER)                   |                                       |                          |                         |                                       |   |

These are guidelines of average internal colorations for specific external shade guides.



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# GEORGE TAUB PRODUCTS & FUSION CO., INC.

MANUFACTURER & DISTRIBUTOR OF DENTAL PRODUCTS

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## SMART SPACER®

Taub Products offers SMART SPACER®, an internal dentin color die spacer system to enhance external shading on pressable ceramics. SMART SPACER® is available in 6cc and 15cc bottles with colors that match various tooth shade guides and stump guides enabling better color perception of the porcelain restoration. The color of the die stone and/or die spacers of other systems will no longer negatively influence the color of the ceramic when SMART SPACER® is used.

| SMART SPACER® SHADES | IPS NATURAL DIE MATERIAL® | IPS EMPRESS® | CROMASCOP®       | VITA®                           | OPTIMAL® Prep Shade Check Guide |
|----------------------|---------------------------|--------------|------------------|---------------------------------|---------------------------------|
| SS 1                 | ND 3                      | ST 1         | 210-240, 310-320 | B4, B3                          | PS 4                            |
| SS 2                 | ND 4                      | ST 2         | 330              |                                 | PS 8                            |
| SS 3                 | ND 5                      | ST 3         | 340              |                                 | PS 9                            |
| SS 4                 |                           | ST 4         | 520              | C4, A4                          | PS 2                            |
| SS 5                 | ND 8                      | ST 5         | 530, 540         |                                 | PS 3                            |
| SS 6                 | ND 6                      | ST 6         |                  |                                 | PS 5                            |
| SS 7                 |                           | ST 7         |                  |                                 | PS 6                            |
| SS 8                 | ND 7                      | ST 8         | 410-440, 510     | A2, A3, A3.5, C1, C2, C3, D1-D4 | PS 1                            |
| SS 9                 | ND 2                      | ST 9         | 110-140          | A1, B1, B2                      | PS 7                            |
| SS 10                | ND 1                      |              |                  |                                 |                                 |
| SS 11                | ND 9                      |              |                  |                                 |                                 |
| SS W (white)         |                           |              |                  |                                 |                                 |
| SS T (thinner)       |                           |              |                  |                                 |                                 |

These are guidelines of average internal colorations for specific external shade guides.

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## INSTRUCTIONS FOR USE OF SMART SPACER<sup>®</sup>

Determine the correct shade of **SMART SPACER<sup>®</sup>** from the prescription supplied by the dentist. Refer to the chart and/or the painted shade guide that you create.

Shake bottles well before opening for uniform consistency of material and shade.

Apply 2 coats of **SMART SPACER<sup>®</sup>** for 25 microns space to within ½ mm of margins, allowing each coat to dry first. After 2nd coat, let stand 1-2 minutes. Lubricate with **TAUB TRUE RELEASE** or other quality die lubricant and then wax up. Follow manufacturer's procedures for investing and pressing. Once pressed ceramic has cooled, place back onto original die with **SMART SPACER<sup>®</sup>** already on. Check for fit. Any internal high spot on crown or onlay/inlay will scratch die spacer. Make adjustments, as normal. To make better color contacts to spacer, apply build-up liquid, water, or other wetting liquid before setting crown back on the preparation.

To adjust color at margin, it may be necessary to apply one coat of **SMART SPACER<sup>®</sup>** onto margin, just to keep color of preparation consistent. Too much buildup on the margin could damage cast crown when placing it back onto preparation.

Follow manufacturers' procedures for color modifications of ceramic crown.

**SMART SPACER<sup>®</sup>** can also be used for color enhancement of porcelain laminates. However, **SMART SPACER<sup>®</sup>** is not a refractory die spacer and should not be used for direct firing.

**SMART SPACER<sup>®</sup>** color **SS W**, is a white opaque die spacer. It is useful for color modification of the spacer or for masking the model surface color. To soften a color, use it in lieu of the first of the two coats of the colors.

Normally, two coats of the shades are required to mask out the color of the die stone as well as give a more accurate color of the die spacer shade.

Use **Thinner SS T** to keep shades at proper consistency, or to remove spacer off of die, if desired.

Apply two coats of each shade of **SMART SPACER<sup>®</sup>** onto the die stone that you use in your lab to create your shade guide of **SMART SPACER<sup>®</sup>**. The shades may vary slightly depending on the stone's porosity, density and color as well as the perception of color from the background of the stone. Make sure to mark the **SMART SPACER<sup>®</sup>** number along side of these applications.

By using Taub Rubber Sep white over the die preparation after **SMART SPACER<sup>®</sup>** is applied, the **SMART SPACER<sup>®</sup>** color will show through after the Rubber Sep has dried clear. Rubber Sep will allow the easy removal of whatever is applied on top, e.g., composite resins, wax buildup, etc.

By using Rubber Sep prior to applying **SMART SPACER<sup>®</sup>**, the die spacer can be readily peeled off of the die stone, should this be desirable.

Our two coat color layering technique creates a more versatile shading system. By applying one shade on top of a different shade or shade modifier, **SMART SPACER<sup>®</sup>** allows you to make your own custom stump shade.

It may be desirable to apply 1 to 2 coats of a die hardening/sealing solution such as **Taub Stone Die & Plaster Hardener**, on the preparation, margins, opposing arch, or wherever contact abrasion will occur, before putting on **SMART SPACER<sup>®</sup>**. This will prevent unnecessary wear on the model without any dimensional buildup.



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## MINUTE STAIN



### Size:

Kits: (1/4 oz Btl)  
3 Color - Sml,  
7 Color - Lrg

### Individuals:

1/4 oz, 1/2 oz,  
2 oz Bottle,  
1/2 oz Resin,  
1/2 oz Thinner, (larger bottle sizes available upon request).

### Color:

Regular Colors: Brown, Yellow, Cervical Blend, Pink, Grey, Blue & White; Custom Colors: Orange, Violet, Black, etc.

### Kit Contents:

The 7 color kit includes: the colors: Brown, Yellow, Cervical Blend, Pink, Grey, Blue & White, Clear Glaze, 2 Thinners, Porcelain Slab and assorted brushes.

The 3 color kit includes: the colors: Yellow, Grey, Cervical, Clear Glaze, 2 Thinners, Brush & Slab.

### Description:

For more than 50 years, Minute Stain acrylic resin stains have been used in dentistry to make permanent and provisional acrylic resins look natural and more life like. Minute Stains are quick settings colored acrylic liquids that are applied by brush to modify the shades of cured acrylic provisional and permanent restorations. The pigments in each bottle can give varying intensities from barely noticeable to highly translucent to completely opaque. The colors are not made from dyes. Fracture lines, occlusal pit and fissure, decalcification and hypo-calcification, tobacco erosion-type effects, incisal modifications and denture based staining are easily created using our processes. It is easy to lighten or tone down shades. The clear over-glaze seals colors in, keeps surface stains out and creates a smooth surface.

The stains cure and bond to all dental resins, including ethyl and methyl methacrylates, polycarbonates, vinyl methacrylate copolymers, resin crowns and laminates, denture base, acrylic denture teeth and composite resins. Minute Stains can be applied in or out of the mouth.



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## HYDROXYLINE and HYDROXYLINE TC Calcium Hydroxide Cavity Liner

### Hydroxyline Kit Components:

Item #: 05-1000

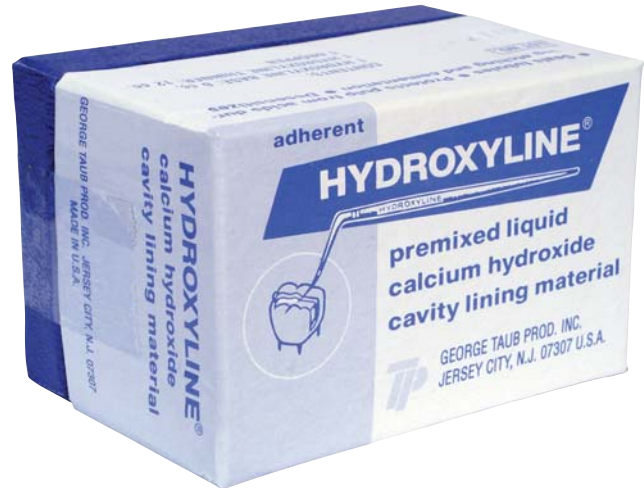
Application Liquid Base – 6cc;  
Thinner – 12cc; Eye dropper – 2”

### Hydroxyline TC (Tooth Color) Kit

Components: \*

Item #: 05-1500

Application Liquid TC Base – 6cc;  
Thinner – 12cc; Eye dropper – 2”



### Description:

Hydroxyline's thin 'varnish' film forms a chemical and physical barrier that seals tubules and protects the pulp from acids in cements and acid etching solutions. Use it under both temporary and permanent cementation to protect the pulp. It will prevent thermal and 'pulp' shock.

Easy to apply – sets in 15 seconds or less- can be used under all filling materials including composites and amalgam. Its thin resinous film makes it highly suitable for both posterior and anterior composite restorations. The material will not soften up or wash out under the restoration. Use it under glass ionomer liners to eliminate sensitivity and give protection during etching. Hydroxyline eliminates the need for most bases and varnishes.

Hydroxyline is compatible with all resins and will not affect the color the resin.

### Instructions:

**Self dispensing** – Just shake the bottle and place the cap directly on a mixing pad for ½ second. A small amount of liquid drops down. Recap the bottle. The working time of this droplet is up to 3 minutes. However, once applied it sets in seconds. The droplet can be used for multiple applications. Apply Hydroxyline with a ball burnisher, brush, cotton pellet, explorer, etc.

\* **Hydroxyline TC** is a Dentin colored film which maintains the composite resins' esthetics for thin Class V restorations. It will not 'whiten out' the resin as other opaque liners do.



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## RUBBER SEP



### Size:

1/2 oz, 3/4 oz,  
4 oz

### Color:

Pink, White

### Description:

Rubber Sep is a latex liquid that creates a peelable film. It is a die spacer, release agent and separator for acrylic and composite resin restorations. Paint a thin coat onto the preparation and let it dry, which takes a few minutes (air or heat hastens drying time). The pink Rubber Sep dries translucent red and white Rubber Sep dries clear. The prep now has a 12 micron coating that allows the resin to cure onto the surface, making the cured resin easier to remove.

Acrylic resins tend to shrink when they cure and tighten onto the prep, making it difficult to remove. This can result in breakage of the stone model. Rubber Sep makes removal easier and results in space between the prep and the inside of the provisional for cement space. When applied intra-orally, using an instrument, the rubber coating does the same thing as on a stone model, but also prevents the free monomer of the resin from harming the tooth. It also acts like a thermal barrier from the heat generated as the resin cures. This gives the dentist the added security of knowing that the resin will not attach to the tooth, which would make removal more difficult, should the resin begin to cure prematurely. When using Rubber Sep intra-orally, place a drop on a mixing pad. Work off this pad, so as not to contaminate the rest of the Rubber Sep bottle.

Rubber Sep can also be used to make a space for bleaching gels. A thin film is applied to the labial aspect (front surface) of the working model. Let the film dry, and then vacuum form the bleaching tray over this. The tray would have a 12 micron film space for the bleaching gels. The Rubber Sep would not impart any coloration to the tray. Because it peels off, the model is not damaged.

Use Rubber Sep inside crowns for core build-up. It separates the crown from the core build-up material and establishes space for the cement. Because it peels off clean after the removal of the crown, it leaves no residue or contaminant and won't affect the cement bond.



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## INSTA-GLAZE / INSTA-GLAZE HYB / PORCEFLEX WHEELS



\*Porceflex wheels - shown in Course Gray "E"

### Contents of:

#### **INSTA-GLAZE**

**KIT:** 2g syringe (3u), felt wheel, cone, knife edge and rubber wheel;

**INSTA-GLAZE** (Syringe only): 2g syringe (3u);

**INSTA-GLAZE HYB** (Syringe only): 2g syringe (0.5u);

**\*PORCEFLEX WHEELS:** (Sold separately, Pkg of 10) Flat: Style 1 - 7/8", Style 2 - 5/8"; Style 3 - cylinders w/ mandrel; Knife Edge: Style 4 - 7/8", Style 5 - 5/8"; Available in Course Gray "E" or Fine Pink "D".

### Description:

Insta-Glaze is a simple technique using a diamond paste-felt wheel polishing system to achieve the highest polish to porcelain and composite resins. By re-creating the glaze of fired porcelain chairside or benchside with our system, it eliminates additional re-firing which could result in coarse vitrification, porcelain discoloration or warpage. The 3 micron diamond paste was designed to bridge the gap between the 'finish' from your current polishing wheels, discs or pastes and the ultimate finish that can be attained from the porcelain or composite resin itself.

In many cases, its use actually bypasses most of the final polishing procedures after contouring. Adjustments to the porcelain, before or after cementation, no longer pose a problem to or compromise its esthetics. Insta-Glaze re-establishes the glaze in seconds.

Insta-Glaze is also economical compared to the other 'less expensive' pastes. It uses less material to achieve a higher polish and doesn't splatter or run during polishing.

Using Insta-Glaze on micro-fill resins will create a high polish in seconds. This polish is obtained with minimal effort, surface reduction or generated heat, using a felt, Robinson wheel or prophyl cup.

The Insta-Glaze HYB, 0.5 microns, was specially developed to create an extremely high polish to hard-to-polish hybrid resins. We also carry a 0.2 micron HYB polish for systems such as Art-Glass® and BelleGlass® and the new nano-filled resins.

\* For contouring or adjusting, our soft, flexible Porceflex (gray) wheels, eliminate the use of a diamond or other abrasive wheels, while leaving a smooth semi-gloss surface. The Porceflex wheels do not generate heat, micro-fractures or patient discomfort like the harder wheels or diamonds do.



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## Stereo Microscope S300II S / M



### Components:

Mirror body, Lens unit (8X), Eye shades, Weight stand

### Options:

1. 16X lens unit
2. (M) - Magnetic base – easily attaches to any heavy metal ferrous type surface (i.e. – hand piece motor box)
3. Object stand/adaptor - for quick viewing and focusing
4. 50cm (20") neck
5. Removable eyeshades for eyeglasses – for 8X & 16X lens

### Description:

The S300II is designed for the discerning lab technician, dentist, Q.C. personnel, hobbyist, etc. The optics (made by Olympus), has extraordinarily bright visibility needing only normal ambient lab bench lighting for viewing. It is very portable, requiring minimal lab bench space and no electricity. Working distance is approximately 5 1/2" beneath optics or 11" below viewing lens. An optical glass shield that is easily cleaned, seals out dust or dirt or other contaminants. The optics rotates 360 degrees. The 30 cm (12") Flex-neck (standard) makes viewing and focusing simple and hands free with almost infinite adjustment.

### Specs:

Weight – 3.14kg (7 lbs)

Mirror body

1. Eye contact lens:
  - a. G10X – Total enlargement 8 times. Visible area measurement 20-25mm
  - b. G20X – Total enlargement 16 times. Visible area measurement 10-12mm
2. Object contact lens: 0.8 x focus depth 120mm.
3. Mirror cylinder: cylinder direct vision
  - a. Counter prism system 12 degree angulation
  - b. Eye-stereo distance adjustable
    1. G10X lens 55 – 68 mm depth of focus
    2. G20X lens 53 – 63 mm depth of focus

Unit made in Japan.



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## Bright Spot I & II Description

Bright Spot I – Bright Spot I is a quick drying white liquid that creates a thin 7 micron film. It provides an excellent contrast to and aids articulating paper to mark surfaces that paper alone will not readily mark such as highly polished porcelain and metal. Because only a minimum amount of pressure is needed to mark the film, premature marks are more readily apparent. Use it also for checking high spots inside crowns, for interproximal contacts, on inside clasps. The film will easily scratch or rub off

indicating the high spot.

Bright Spot II red indicating liquid stays wet as a thin film of around 7 microns. It is applied to the opposing or adjacent surface and transfers a mark at the lightest touch or contact. It is applied on the opposing side or arch for diagnostic evaluation and equilibration on enamel or models. Use it on the inside of crowns to detect internal discrepancies. Use it for checking crowns or for seating partial denture framework. Bright Spot II is best when applied to a dry surface. It will mark, even if the surface is wet from saliva or water spray.

When using Bright Spot II on a model, it is best to first coat the stone surface with Stone Die Hardener to seal the surface to prevent our material from penetrating the surface. It also makes it easier to clean the film off of the stone model.

Bright Spot is best applied with a Microbrush or similar applicator. The kit comes with thinner which is used to keep the liquids thinned.

Bright Spot I is readily scratched or rubbed off. Bright Spot II is readily cleaned off with a wet paper or cotton roll.

We offer other contact transfer liquids which provide high spot capabilities similar to Bright Spot II. Bright Spot III is white, Bright Spot IV is blue, Bright Spot V is light green and Bright Spot VI is pink. The Bright Spot colors I and III are made with titanium dioxide pigment, Bright Spot II is made with iron oxide pigments and Bright Spot IV, V, and VI are made with organic pigments. These would be good for the lab technician.



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## STONE & DIE PLASTER HARDENER



### Color / Size / Item #:

#### Resin - Lt. Yellow

2 oz - 02-2001

8 oz - 02-2002

16 oz - 02-2003

#### Thinner - Lt. Yel

2 oz - 02-4000

8 oz - 02-4001

16 oz - 02-4002

#### Kit (1x Resin / 1x Thinner)

2 oz - 02-1000; 8 oz - 02-1001

### Description:

Stone Die & Plaster Hardener resin has been designed to significantly reduce abrasion and wear of stone and plaster models. Its thin consistency allows penetration of its plastic component into the hardest of stones, making not only a harder surface, but one that is plasticized and sealed. It does this without causing unnecessary buildup on the stone surface.

The resin liquid is applied with 1 to 2 coats, allowing the first to penetrate the stone model, which will be absorbed into and darken the surface. After the first coat is absorbed (usually within 10 to 15 seconds), the second coat is applied, increasing the resin content in the surface. By doing this procedure a negligible film thickness of 1 to 3 microns is incurred. After the coats have dried, the stone will not look dark, but will have a slight sheen to it to indicate where the liquid was applied. The resin should be applied not only to the die and margin, but also to the opposing dentition to prevent abrading of that surface as well as on surfaces where abrasion will occur under normal processing of framework, such as where clasps are placed, on interproximal contact surfaces, etc. Margins can be marked before or after the application.

Stone & Die resin will not thicken up when in contact with the moist air, as cyanoacrylate based hardeners do. Studies have shown the cyanoacrylate will create a 3 micron film when first applied, but after 30 days, that same film will rise to 10 microns, because of the thickening of the cyanoacrylate once opened (even if sealed and not used again, until 30 days later.) The Stone & Die Plaster Hardener Kit comes with a bottle of thinner, which is used to maintain the proper thin consistency over the life of the resin, by adding just a few drops of the thinner. Should puddling occur with the resin, just gently blow the surface while it is still wet, or brush thinner over that area to eliminate the excess buildup.

**Continued on back...**

# **STONE & DIE PLASTER HARDENER**

## **Description Continued below**

The resin as received or when properly thinned should look like soap suds after hard shaking. If it is too heavy only a few small bubbles will form and not rise rapidly.

Die spacers are applied after the die hardener.

With Stone Die Hardener Resin, it will be easier to work on the stone surface. First, the particles of stone are plasticized but not glued together, like the cyanoacrylate based materials. This prevents accidental and excess surface removal of the model during trimming or ditching. Also, the surface will be easier to clean off of the grinding debris after trimming, since the wet or dry debris will not stick hard to the stone's surface where the resin has been coated.

In addition, applying the die hardener will prevent drying out of lubricant on the die since it will not be absorbed into the die stone making it easy to remove the crown without disturbing the porcelain buildup. Also, applying the die hardener onto the opposing surface where a porcelain buildup will contact that surface, will prevent the water absorption out of the porcelain buildup surface at that contact area.

The standard Stone Die Hardener Kit has enough liquid to apply onto over 400 dies. Neither the resin nor thinner has a shelf life. The liquids have a slight yellow color also to show where the surface has been coated. They also are available in clear.



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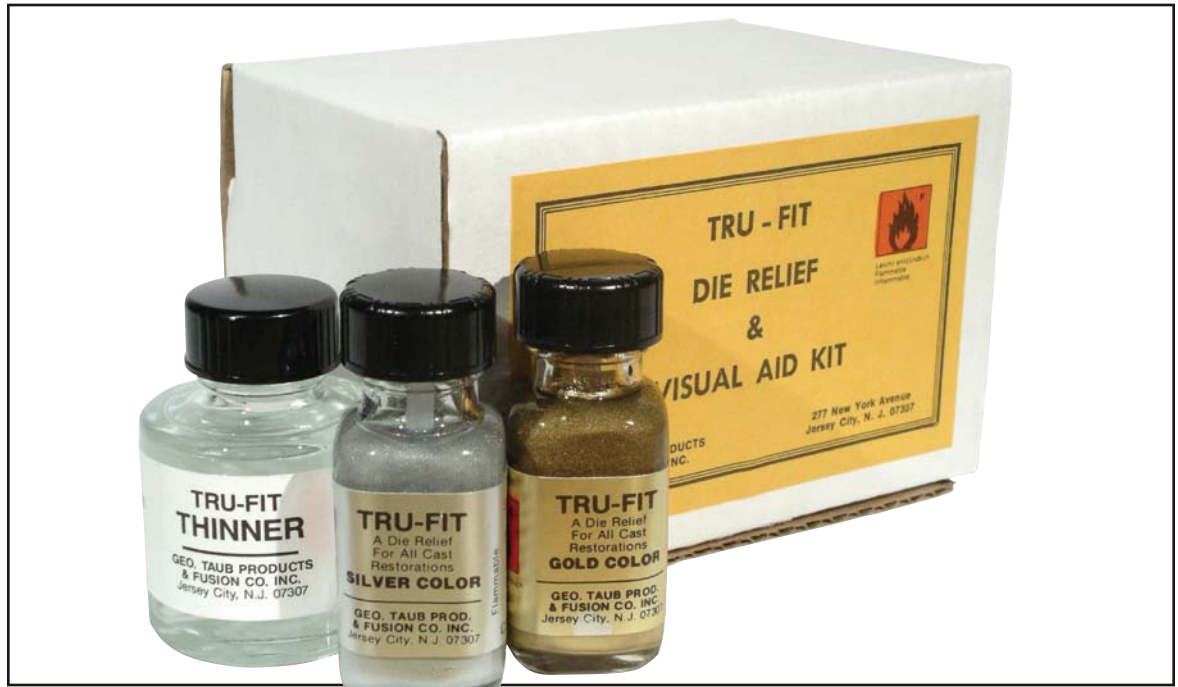
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## TRU-FIT



### Size:

**Colors:** 1/2 oz,  
1 oz, 2 oz, 4 oz,  
8 oz; **Thinner:**  
1 oz, 2 oz, 8 oz,  
16 oz, 32 oz

### Color:

Gold, Silver

### Description:

A controlled technique for relieving dies before wax-up, by alternating coatings of gold and silver colored liquids over the die for uniform coverage of 25 microns space. Liquids are fast setting. Use on stone, amalgam, plated or epoxy dies. It is a high spot indicator. Tru-Fit's gold and silver colors can be used as a visual aid on models for patient education. Gold solution can be used to simulate crowns, inlays and bridgework. Silver solution can be used to simulate amalgam restorations, partial denture framework.

According to studies at a leading university, precision castings will not seat, be as much as 200 microns, unless relieved. To provide adequate space for cement and common internal discrepancies for ALL crowns and inlays, four coats of fast-drying Tru-Fit will provide much better marginal fit by allowing castings to seat more completely. Tru-Fit also greatly reduces the need for occlusal adjusting.

### Instructions:

1. Shake well – Make sure all pigments have been shaken up. Tru-Fit must be as free flowing as water, add thinner as needed.
2. To create a 25 micron space for cement, apply 4 thin coats of Tru-Fit with smooth, even strokes from a small brush, to any die material. – Stone dies, amalgam, plated or epoxy.
3. Keep Tru-Fit 1/2 mm short of the margin.
4. Allow 30 seconds to one minute drying time between each application.
5. Alternate colors of gold and silver to insure uniform thickness.
6. After Tru-Fit is applied, lubricate the die before applying wax.

### Other Applications:

Tru-Fit in gold and silver colors can be used as a visual aid for patient education. Gold solution can be used to simulate crowns, inlays and bridgework. Silver solution can be used to simulate amalgam restorations, partial dentures. As a visual aid Tru-Fit can be applied to stone or plaster models, porcelain or acrylic teeth. Easily removed with thinner. As a high spot indicator, Tru-Fit colors will indicate where internal discrepancies of the crown, bind on the die.



# GEORGE TAUB PRODUCTS & FUSION CO., INC.

MANUFACTURER & DISTRIBUTOR OF DENTAL PRODUCTS

277 NEW YORK AVENUE, JERSEY CITY, NJ 07307

TELE: 800.828.2634 / 201.798.5353 FAX: 201.659.7186

EMAIL: SALES@TAUBDENTAL.COM WEBSITE: HTTP://WWW.TAUBDENTAL.COM

## Fusion



### Description:

A two-liquid kit. Activate a fresh supply which is good for 2-3 weeks. Use it for easy chair-side repairs to: porcelain-gold restorations, porcelain jackets, porcelain denture teeth, popped-out porcelain veneers or facings. Eliminates costly laboratory remakes. Fusion is not a cement! It creates a chemical bond of fresh mix of any acrylic or composite resin to porcelain, but it won't bond acrylic to acrylic. This non-toxic, non-irritating formula can be used in or out of the mouth.

## Instructions

### Activation:

1. Place 5 drops of liquid A and 5 drops of liquid B in the "MIX" bottle. Shake well and set aside for at least 15 minutes. (This is essential to assure complete activation.)
2. Fusion is now ready for use and will remain stable for about 3 weeks.
3. Mark expiration date on side of "MIX" bottle. Discard mix after expiration date.
4. Before making a new supply, wash "MIX" bottle with alcohol and dry thoroughly.
5. As you make fresh supply, enter a new expiration date on the "MIX" bottle.
6. When not in use, keep the bottles tightly sealed and store kit in a refrigerator or a cool dark area
7. Let bottles come to room temperature before opening to make a new mix.

### Repair Procedure: Porcelain-Gold restorations, Porcelain Jackets, Porcelain Denture Teeth

1. Where possible, grind lightly to clean damaged porcelain and roughen exposed metal. Do not grind porcelain to expose metal if porcelain bond is strong. If exposed metal has oxides present (grayish surface), do not remove or grind area.
2. Clean with Alcohol.
3. Apply a thin coat of Fusion to damaged area and allow Fusion to set for 2-3 minutes, then blow dry.
4. Use your resin bonding agent (or a wet mix of self-cure acrylic) or flowable composite in the desired color. While mix is still wet, restore chip or crack. If large area is broken away, rebuild with the wet acrylic or composite to desired size and shape. – The resins will bond to the metal or porcelain.
5. Caution: Should be used if acrylic is applied by brush technique, because too much free monomer may wash away fusion and prevent bonding.
6. When either acrylic or composites have cured hard, carve or trim to correct contour, then polish.



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## De-Tak™ Description and Instructions

De-Tak™ is formulated to eliminate the tackiness between dental instruments and filled composite resins. Placement and contouring are now easier. The composite resin will not stick to the instrument, be it metal or plastic, and pull away from its desired shape. Frustrations are eliminated.

De-Tak™ is used sparingly. The 15cc bottle will give hundreds of applications. Just place a small droplet on a mixing pad, coat the surfaces of the instrument and wipe off excess on the edge of the pad. Now you're ready to proceed. Re-coat the instrument as needed.

Use De-Tak™ for placement and contouring of Light Cured and Chemical Cured (paste-paste) composites, micro-fill and hybrid resins. When used properly, it will not interfere with the setting, chemical or physical properties of the resin. Resins can be built up on surfaces that have been contoured with a De-Tak™ coated instrument. De-Tak™ can be used with any brand of restorative resin.

De-Tak™ is also desirable for applications of cements.

\*Note: It is suggested that De-Tak™ not be used during the "mixing" of paste-paste composites, during placement of unfilled or partially filled flowable resins or bonding agents, as a substitute for the resin bonding agent, or to dilute the viscosity of a resin.

With De-Tak™ your instrument will glide over the resin surface producing a smoothly contoured area. It is an easy to use, simple and time saving product that should become a routine and necessary procedure in your office.



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## Beta-Cast Debubbler Description

### Sizes:

- Item #: 17-2000 – 2 oz
- 17-2001 – 8 oz – Spray Bottle
- 17-2002 – 16 oz
- 17-2003 – 32 oz
- 17-2004 – 1 gal

BetaCast is a liquid surfactant that reduces surface tension on wax patterns and silicone type impression materials. It lets investment come closer to the surface for more exacting results. It reduces air bubble entrapment and surface porosity. An ideal product for gold, semi and non-precious metals.

When pouring stone models against high surface energy impression material, BetaCast allows the stone to come closer to the surface and allows the stone particles to pack

closer to one another, resulting in a better detailed, bubble free model, with a harder, smoother surface.

BetaCast is very easy to use. Apply thin coat with brush or spray, Allow it to dry or gently blow dry. Pour investment or stone using vibrator. The liquid in the stone mix reactivates the BetaCast.

Available in an 8 oz. fine mist spray, and refills of pints, quarts and gallons. Order some today, through your local dealer or contact George Taub Products.



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## DIRECTIONS AND COLOR CHART FOR TRU-PAQUE

### How to mask metal partial framework, veneers, copings bridgework with Tru-Paque.

Tru-Paque shades are colored opaque liquids that air dry to a 5-7 micron film in less than 15 seconds and aid in masking out metal framework. Tru-Paque is applied to metal surfaces that would be covered by acrylic or other resins. The colors are brushed on and allowed to dry before applying the acrylic resin over the surface.

Shake the bottle well before using. Apply after boilout on the cool, dry metal surface. Make sure there is no residual wax or greasy film. Roughen / sandblast the polished metal surface to enhance the bond. Can be used under all acrylics, bis-acrylic and composite resins, self or light cured resins. Apply thin and keep thin by adding thinner as needed.

To enhance the bond of Tru-Paque, it is recommended to first mix a few drops of the desired Tru-Paque color into a dappen dish along with 5-6 drops of self-cure monomer and stir the liquids together. Sprinkle a small amount of self-cure acrylic powder into the mix and allow it to start to thicken up, stirring the mix to make it uniform. Brush this coating onto the metal surface and allow it to cure. Because it is a soupy mix, it will take longer to cure. The addition of the resin and monomer will make the opaque liquid become a harder film. It will not be dislodged during packing of the acrylic over the surface nor be affected by the monomer which could otherwise soften and dislodge the Tru-Paque film.

Tru-Paque pink is a shade used on the mesh of the framework.

Tru-Paque tan, yellow, light cream, dark yellow, white and gray would be used on labial / buccal metal surface prior to placement of acrylic or other resin.

| COLOR CHART                                      | Nue Hue*    | Vita**         |
|--|-------------|----------------|
| Tru-Paque Light Cream would be used for shades:  | 61,62,63    | B2, A2         |
| Tru-Paque Light Yellow would be used for shades: | 60,66,67,69 | A1, A3, B3, C2 |
| Tru-Paque Tan would be used for shades:          | 65, 68      | D3             |
| Tru-Paque Dark Yellow would be us for shades:    | 77 to 87    | B4, A3.5, A4   |
| Tru-Paque Gray would be used for incisal shades. |             |                |

Blends may be obtained by mixing any of the above colors together.

The thin film of Tru-Paque will not interfere with or undermine the mechanical retention on the metal surface. Resins placed over the film will bond to it.

The Tru-Paque thinner is used to keep the colors thin and also to clean the applicator brush. The Tru-Paque bottles should be kept sealed. Addition of thinner maintains their thin consistency.

Note: If Tru-Paque solidifies, fill bottle with thinner, let stand for 5 days, shake well and stir. It will redissolve completely and be ready for use again.

\*Registered trademark of Dentsply, Int.. \*\*Registered trademark of Vita Zahnfabric.



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## Peerless Crown-A-Matic Crown and Bridge Remover



### Description:

With the Crown-A-Matic, Peerless International, Inc. is offering the Dentist an entirely new instrument for removing fixed crowns and bridges. This instrument facilitates the Dentist's work. It is simple to use and not FRIGHTENING to the PATIENT with proper instructions! In most cases, the procedure is painless even in the absence of local anesthesia!

The handling is extraordinarily simple and requires no assistance. Holding the instrument with one hand, you can use the other to secure the instrument at the margin of the crown to be removed. The crown or bridge is removed by a short, shock impulse. The shock distance, which is ½ mm or less, will break the cement seal at one of the three intensities. The CROWN-A-MATIC is supplied with two different inserts; one for individual crowns; one for bridges or splints. The inserts can be exchanged quickly. The shank of any dental instrument can be placed in the hole of the insert and by turning the handle, the insert can be screwed on and off easily.

- The handling is EXTRAORDINARILY SIMPLE.
- FIXED PROSTHESIS can be taken off more easily, even in combination with other removal instruments.
- By means of a short, but intensive shock impulse, the CEMENT BOND is SEVERED.
- Procedure is PAINLESS, even in the absence of local anesthesia.
- In most cases, metal-ceramic crowns and bridges can be removed UNDAMAGED.
- The CROWN-A-MATIC is made of the highest quality steel and the interchangeable inserts can be sterilized separately by any method.

The CROWN-A-MATIC is designed and manufactured in the U.S.A.



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## CONTOUR - Model / Porcelain Surface Indicator



### Size & Color:

Powder - Gold  
(3/4 oz)

Liquid - Clear  
(1/2 oz)

### Description:

The Contour Kit (1 Btl of Gold Powder, 1 Btl of Clear Liquid) allows the technician to see the idiosyncrasies of the model and porcelain surfaces, prior to glazing, in order to replicate the natural surface texture. It better defines the tooth surface and texture, as shown on the model and unglazed porcelain that is hard to see under normal working conditions. It exposes surface flaws on the porcelain such as angulations, flat or coarse or granular texture and allows for the easy adjustment of the surface topography. It totally improves the anatomy. Once you are satisfied with the surface as shown with Contour Powder, then the glazed porcelain will exceed your expectations.

### Instructions:

1. Place, on a mixing pad or glass slab, 2-3 drops of Contour Modeling Liquid, using the eyedropper applicator.
2. With a small spatula, place a very small amount of Contour Gold Powder along side of the liquid.
3. Use a fine pointed #1, #2 or #3 sable brush, or similarly shaped and stiff brush. Soak the bristles in the liquid first and then pick up the gold colored powder with the wet brush.
4. Apply a thin layer of the powder on the porcelain surface, covering it completely carefully removing excess material as it is spread over the surface. The coating should not look wet. Apply the coating just beyond the margin onto the model surface. This would allow the layer to be spread past the edge of the porcelain, preventing unwanted buildup at the shoulder, had the brush stroke been purposely stopped at the porcelain edge.
5. Paint the adjacent model tooth structure so that it represents the surface texture of the teeth you are trying to match or contour to.
6. The thin, uniform coat of gold powder will highlight coarse surface texture, irregular or sharp edges, or unnatural looking surfaces. It helps expose these defects so that they can be easily corrected. Re-apply the film over the adjusted area to make sure that the adjustments made are to your satisfaction.
7. Rinse the porcelain restoration and model off in warm running water. The powder readily washes off. If need be, a small stiff brush will aid in removal in tight areas of the porcelain or model. Steam cleaning will prevent possible contamination and it will make the model and porcelain look clean.
8. Clean, dry and proceed with the glazing. The resulting restoration will be much more natural looking. This procedure generally eliminates the necessity to make further contouring adjustments and subsequent re-glazing.