

SILMET

Silmet Ltd was founded in 1969 as a leading manufacturer of certified ADA amalgam alloys and to date has a continually expanding and diversified product line.

Silmet's state-of-the-art facilities include a multi chambered manufacturing plant for amalgam production, a computerized quality control laboratory, automatic amalgam capsule production lines and a modern production line for Non-Gamma dispersion amalgams.

Special emphasis is put on particle size distribution, particle shape and heat treatment. Silmet's strength lies in our commitment to extensive RandD combined with use of cutting-edge technology in the dental industry.

Silmet is committed to the quality of their products and bear the following certification: ISO 13485:2016 and MDD 93/42/EEC. With a proven track of excellent clinical performance, Silmet's products are available in the USA, Europe, Asia and Latin America.

Silmet, in association with the affiliate company BJM Laboratories also develops and manufactures Adhesives, Resin Cements, Compomer and Glass Ionomer cements. This joint venture has made breakthrough progress in dental technique and precise clinical application with an ingenious line of dental products.

SILMET'S PROFIL™

Silmet's ProFil™ is a proven, moderately priced, everyday restorative composite containing Bis-GMA and TEGDMA resins plus non-agglomerated nanofill silica filler. It is designed for minimizing polymerization shrinkage by high density inorganic fillers loading, thus shows optimal marginal sealing and surface texture. A simplified and fast placement technique makes it a favorite composite choice for dentists.

Available in 7 shades that have been carefully selected to provide optimal optical quality while supporting the "Natural Layering Concept" clinical approach, it is available in refill syringes and single-dose capsule boxes, as well as a variety of kits.

What experts are saying...

Consultants reported the shade selection and colour match were very good. Although the thicker viscosity makes it somewhat difficult to extrude, ProFil™ is very easy to use and stays where placed with no slumping. Consultants reported that it was easy to finish and polish. Blending with natural tooth colour, as well as final polish and esthetics are very good.

Dental Products Report comments it has been great in terms of eliminating post-op discomfort and sensitivity related to posterior restorations. The product's low polymerization shrinkage, high resistance to wear and high strength makes it a very good choice for deep, wide Class II restorative resin in posterior teeth.

How does it handle in your hands?

For me as a dentist, one big challenge with composite resin material is its stickiness to operative instruments, which leads to pull back of the resi before light curing. I have seldom experienced this problem with Silmet ProFil™ micro nano resin. This allows me to place the filling in less time, with easier sculpting and to get exceptional results.

Another great feature of this product is its texture, which allows it to be polished very easily with any type of composite finishing/polishing burs/disks/paste in such a short amount of time. Additionally, polishing powder residue does not stick to the surface of tooth enamel and is easily lifted by water rinse, which leads to a cleaner, smoother polished surface.

Why should clinicians try this?

Throughout the years that I have followed my patients' composite restorations during routine biannual oral exams, the Silmet ProFil™ resin restorations have kept their integrity, strength, shade, sealed margins, had no staining and above all, have led to patient satisfaction and comfort.



PROFIL™

Flowable Composite

ProFil™ Flow is a visible - light activated, radiopaque, flowable composite. The excellent flowable consistency characteristics makes ProFil™ Flow an ideal composite for filling cavities.

FEATURES

- Excellent esthetic properties
- No oozing or slumping
- Perfect for minimal invasive restorations
- Low Viscosity
- Maximum versatility
- High polish retention and stable color match
- Long term fluoride release
- Low shrinkage
- Indications
- Class III, Class V, Smaller Class IV restorations
- Base/liner in Class I and Class II restorations
- Repair of resin, porcelain and acrylic temporary materials
- Pit and Fissure sealant
- Restoration of minimally invasive cavity preparations
- Undercut blackout.

PHYSICAL PROPERTIES

- Sensitivity to ambient light: Above 100s.
- Weight of total inorganic filler: 78%
- Volume of total inorganic filler: 59%
- Depth of cure: 1.5 mm
- Compressive strength: 230 MPa
- Flexural Strength: 120MPa
- Water Absorption: 40 µg / ⅓
- Solubility: 7.5 µg / ⅓.



PROFIL MICRO HYBRID COMPOSITE

Universal Restorative Composite Resin, Anteriors and Posteriors. ProFil™, is a new micro hybrid composite material for use in both anterior and posterior restorations. ProFil™ composite resin is the perfect combination of simplicity and exceptional esthetics.

FEATURES

- High polishability
- Non sticky formula
- Optimal balance of physical properties
- Light cured, radiopaque and color stable
- Low polymerization shrinkage
- Fast placement technique, easy to apply and sculpt
- High strength and wear resistance
- Available in 14 shade.

PHYSICAL PROPERTIES

ProFil™, a micro hybrid composite has outstanding physical properties that provide excellent wear resistance.

- Sensitivity to ambient light Above 100 sec.
- Weight of total inorganic filler 78%
- Volume of total inorganic filler 59%
- Depth of cure > 1.5 mm
- Compressive strength > 230 MPa
- Flexural Strength > 120MPa
- Water Absorption < 40 µg / ⅓
- Solubility < 7.5 µg / ⅓.

20x.25g Computes



4g Syringe

