Radica®
Provisional & Diagnostic Resin

Dental Laboratory Brochure
What is Radica®?

Radica®, a provisional and diagnostic resin, is a revolutionary material designed with excellent physical properties that enables your lab to easily create extremely durable, highly wear-resistant provisionals with superior life-like esthetics to allow you to offer more options to your accounts.

Indications

• Indicated for the fabrication of all provisional dental restoration for a term of use of up to 6 months
• Indicated for fabrication of the following long-term provisional dental restorations (without metal substructures) for a term of use greater than 6 months up to 2 years: Inlays/Onlays, Veneers, Crowns, 3-unit bridges through the 2nd bicuspid
• Indicated for the buildup of a tooth on denture base resins

Radica System - Materials & Equipment

• 16 A-D Dentin Shades
• 2 Bleached Shades: i2 and RD-001*
• 3 Enamel Shades: Light, Medium & Translucent
• 2 Effect Dentins: Tissue Tint & Deep-Red Tissue Tint
• 5 Stains: Olive, Orange, White, Blue, Brown
• Radica Material Syringe Warmer
• Dentsply® Wax Pencil Pro
• Midwest® HP 1558 Burs
• Other: Sealer, Glaze, Brushes, Stain, Matrix Putty, Mixing Pad & Model Release Agent

* Keyed to Vita® 3D Master® Shade 0M12. ¹ Vita® and 3D-Master® are registered trademarks of Vita Zahnfabrik H. Rauter GmbH & Co. ²Data available.
What can Radica® do for you?

What benefits does Radica bring to my lab?

The lab procedure is simple

The process allows for easy layering of dentin and enamel for outstanding esthetics and unparalleled durability.

Full compliment of shades

- 16 A-D
- 2 Bleached
- Variety of tissue tints, stains and enamels

Curing Unit

Radica can be cured in any DENTSPLY curing unit: Enterra®, Eclipse® Processing Unit or Triad® 2000*

Create additional source of revenue

There is no longer a need to outsource your provisional cases. The ease of use in creating durable, long-span provisionals will allow you to add a new service offering to your accounts.

What benefits does Radica bring to my dental clients?

- Unparalleled durability, flexural strength and wear resistance provides confidence for your Dentists and their patients.
- The ability to use on demanding long-term cases, such as perio and implant.
- Life-like esthetics and an expanded shade offering for the most cosmetic cases.
- With minimal shrinkage, Radica requires virtually no adjustments chairside.
- Can be relined with traditional materials.
- Maintains surface gloss and resists staining.
- Engineered radiopacity is optimal for chair side CT scans or X-rays.
- Ability to add teeth to removable partial dentures efficiently.

With Radica, you no longer need to outsource your provisional work. If you don't fabricate your own provisional and diagnostics today, the Radica system is an easy way to incorporate a new revenue source for your lab.

Learn how this new material can save you time and increase your bottom line. Contact your DENTSPLY Prosthetics Sales Representative for a demonstration.

*Suitable for Radica Restorations up to 38mm mesial-distal span
Scientific Studies confirm Radica performance exceeds other temporary resins.

Superior Wear Resistance

<table>
<thead>
<tr>
<th>Material</th>
<th>Volumetric Wear, Multiples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radica</td>
<td>1.8</td>
</tr>
<tr>
<td>Sculpture Plus (Penton)</td>
<td>2.1</td>
</tr>
<tr>
<td>Gradia Indirect (GC)</td>
<td>2.1</td>
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</tbody>
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Radica wear is up to 2X lower than permanent composites.


Superior Strength (160 MPa)

<table>
<thead>
<tr>
<th>Material</th>
<th>Flex Strength, MPa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provisionals Minimum</td>
<td>50</td>
</tr>
<tr>
<td>Permanent Restoration Minimum</td>
<td>100</td>
</tr>
<tr>
<td>3M ESPE Sinfony</td>
<td>110</td>
</tr>
<tr>
<td>GC Gradia</td>
<td>124</td>
</tr>
<tr>
<td>Ivoclar SR Adoro</td>
<td>125</td>
</tr>
<tr>
<td>Radica VLC</td>
<td>160</td>
</tr>
</tbody>
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- Flexural strength is the load bearing capability!
- Radica’s flexural strength exceeds standards for permanent composite restorations, as well as competitive materials for permanent restorations.

Long-Term Durability

<table>
<thead>
<tr>
<th>Material</th>
<th>Fracture Load, N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radica as Placed</td>
<td>1344</td>
</tr>
<tr>
<td>Radica at 2-years</td>
<td>1224</td>
</tr>
<tr>
<td>Acrylic/Economy Tooth as Placed</td>
<td>801</td>
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<tr>
<td>Acrylic/Economy at 2-years</td>
<td>654</td>
</tr>
</tbody>
</table>

• Suitable for long-term use.


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