Instructions for Use
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Symbols in the Instructions for Use

important

information

Tips & Tricks
Telio® system
Everything (for) provisionals

The compatible system solution for temporary restorations

Telio® is the comprehensive system solution for temporary restorations which addresses dentists, CAD/CAM users and dental technicians alike. All products are suitable for the fabrication of conventional and implant-supported temporaries. The materials are compatible with each other and their shades are optimally coordinated.

Telio® CS
For dentists:
Telio CS offers materials for the entire range of indications for chairside temporization.

Telio® CAD
For CAD/CAM users:
Resin blocks and discs for the efficient fabrication of temporary crowns, hybrid abutment crowns and bridges using the CAD/CAM technique.

Telio® Lab
For dental technicians:
Resin material designed for the fabrication of long-term temporary restorations using the cold technique.
These Instructions for Use describe the fabrication of Telio CAD Monolithic Solutions. There are separate Instructions for Use available for Telio CAD Abutment Solutions.
Telio® CAD
Product information

Material
Telio CAD are cross-linked PMMA blocks and discs for the fabrication of long-term temporaries by means of the CAD/CAM technique. As a result of the industrial polymerization process, the blocks and discs feature a high material homogeneity. Polymerization shrinkage or inhibition layers no longer have to be taken into consideration. Given the CAD/CAM fabrication, the restoration can be easily reproduced at any time. Stains and/or layering materials can be used to apply final esthetic optimizations.

Physical properties

<table>
<thead>
<tr>
<th>Specification</th>
<th>Typical average value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexural strength$^1$ [MPa]</td>
<td>≥ 100 135</td>
</tr>
<tr>
<td>Flexural modulus$^2$ [MPa]</td>
<td>≥ 2800 3106</td>
</tr>
<tr>
<td>Ball indentation hardness$^3$ [MPa]</td>
<td>≥ 140 176</td>
</tr>
<tr>
<td>Water absorption$^1$ [µg/mm³]</td>
<td>≤ 40 21</td>
</tr>
<tr>
<td>Solubility$^4$ [µg/mm³]</td>
<td>≤ 7.5 0.0018</td>
</tr>
</tbody>
</table>

1 EN ISO 10477:2004
2 determined by bending tests
3 internal method

Uses
Indications
For the fabrication of temporary crowns and bridges using the CAD/CAM technique.

Contraindications
– Bridge constructions with more than two connected pontics

Important processing restrictions
The following points have to be observed for the successful working with Telio CAD:
– Observe the required minimum thickness
– Milling the discs and grinding the blocks using only a compatible CAD/CAM system
– Staining/layering using materials that are approved and/or recommended

Composition
Polymethyl methacrylate (PMMA)

Warnings
– Apart from a retentive preparation design, the reliable cementation of Telio CAD restorations using a temporary luting material (e.g. Telio CS Link) depends on the accuracy of fit, which is determined by the CAD/CAM system used.
– Failure to observe the stipulated limitations of use and processing instructions may lead to failure.
– Do not inhale grinding dust during processing. Use suction equipment and a face mask.
– If a patient is known to be allergic to PMMA, Telio CAD should not be used.
– Protect from sunlight.
Cad/Cam partners

Telio cad has to be processed with an authorized cad/cam system. For questions regarding the different Cad/cam systems, please contact the respective cooperation partners.
Further information is available on the internet from

partnership-agreements-with-manufacturers-of-cad-cam-units
Telio® CAD Monolithic Solutions
Fabrication process

**Working steps**

1. Preparation, shade determination
2. Intraoral imaging, model scan, CAD/CAM process
3. Polishing
4. Characterization (cut-back technique)
5. Relining
6. Adjustments and corrections
7. Preparing for cementation
8. Cementation

**Ivoclar Vivadent products**

- OptraGate®
  - A-D shade guide
- OptraGate®
  - IPS® Contrast Spray Chairside
  - Vitis® CADbite Registration
  - Telio® CAD
- Astropol®, OptraPol®, Universal polishing paste
- SR Nexco®
- Telio® CS C&B
- Telio® Add-On Flow
  - Telio® Lab
  - SR Nexco®
- Telio® CS Desensitizer
- OptraGate®
  - Telio® CS Link
  - Multilink® Automix
  - Variolink® Esthetic
  - Bluephase® Style

The delivery forms may vary from country to country.
Shade – tooth shade and abutment shade

After tooth cleaning, the tooth shade of the non-prepared tooth and/or the adjacent teeth is determined with the help of a shade guide. Individual characteristics have to be considered when determining the tooth shade (e.g. cervical shade). In order to achieve the best possible true-to-nature results, shade determination should be carried out at daylight. Furthermore, the patient should not wear clothes of intensive colours and/or lipstick.

Preparation

After the determination of the tooth shade, preparation is carried out according to the preparation guidelines.

Preparation for the CAD/CAM process

Scanning

For the fabrication of Telio CAD Monolithic Solutions, the clinical situation is digitized either by means of a direct intraoral scan or an indirect model scan, depending on the CAD/CAM system used. For notes regarding the scan, please observe the manufacturer’s instructions of the CAD/CAM system.

Processing with CAD/CAM - blocks

Please follow the guidelines stated in the corresponding instructions for use and manuals of the individual CAD/CAM system provider when processing the material. The manufacturer’s instructions must be observed. Observe the minimum thickness and the required contact surfaces.

Processing with CAD/CAM - discs

Telio CAD discs can be processed in CAD/CAM milling systems with a standard holder of 98.5 mm. Only use milling tools recommended for this milling system when processing the material. Please note that the material can be subject to overheating if milling tools, polishing brushes, steam cleaners and water baths are handled incorrectly. This may result in the material being damaged.
**Minimum material/layer thicknesses**

Observing the geometry requirements of the Telio CAD structure is the key to success for a durable restoration. The more attention given to the design, the better the final results and the clinical success will turn out to be.

The following basic guidelines have to be observed:

- In large preparations and for partially veneered restorations, the excess available space must be compensated by the corresponding dimensions of the stable Telio CAD component and not by the layering material.
- The transition to the layering material must not be located in the area of the functional contact points.
- With Telio CAD the design of the restoration generated by the software has to be individually adjusted in accordance with the clinical situation using the design tools. The build-up of missing areas to support and reinforce the shape and cusps of the restoration is constructed with the integrated design tools of the different types of software used.

<table>
<thead>
<tr>
<th>Material thicknesses</th>
<th>Telio® CAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum wall thicknesses</td>
<td>occlusal</td>
</tr>
<tr>
<td></td>
<td>1.5 mm</td>
</tr>
<tr>
<td></td>
<td>circular</td>
</tr>
<tr>
<td></td>
<td>0.8 mm</td>
</tr>
<tr>
<td>Connector dimensions anterior bridges</td>
<td>with 1 pontic</td>
</tr>
<tr>
<td></td>
<td>with 2 pontics</td>
</tr>
<tr>
<td>Connector dimensions posterior bridges</td>
<td>with 1 pontic</td>
</tr>
<tr>
<td></td>
<td>with 2 pontics</td>
</tr>
</tbody>
</table>

Failure to observe the stipulated framework design criteria, minimum thicknesses and minimum connector dimensions may result in clinical failure, such as fracture of the restoration.
Finishing

Once milling/grinding is completed, use tungsten carbide burs to separate the work from the disc.

Observe the following procedure for finishing Telio CAD restorations:
- Use cross-cut tungsten carbide burs to smooth out the attachment point.
- Carry out shape adjustments with cross-cut tungsten carbide burs.
- Overheating of the material must be avoided.
- The restorations are placed on the dies and carefully finished.
- Check proximal and occlusal contact points.
- Surface-grind the entire occlusal surface with a fine diamond to smooth out the surface texture created by the CAD/CAM procedure.
- Make sure that the minimum thicknesses are maintained even after the minor adjustments.
- Make sure to thoroughly clean the restoration before further processing and to remove any residue of the milling additive of the CAD/CAM milling unit. Residue of the milling additive remaining on the surface may result in bonding problems.
- Try in the restoration, if necessary.

- Remove any possible white spots on the restoration that developed during milling in the CAD/CAM device using a tungsten carbide bur.
- If a patient try-in is carried out, it is recommended to clean the Telio structure in an ultrasonic bath or blast with the steam jet.
Polishing

When polishing, pay special attention to crown margins, interdental areas, occlusal surfaces and the basal rest area of pontics.

In the practice:

**Astropol**

Step 1: Finishing with Astropol® F (grey):
- With the Astropol F finisher, excess is removed and a smooth surface is achieved.

Step 2: Polishing with Astropol P (green):
- Polishing with Astropol P results in a smooth restoration surface.

Step 3: High-gloss polishing with Astropol HP (dusky pink):
- Do not apply pressure. The restoration surfaces are finished and polished using medium contact pressure.

Finishing and polishing is carried out under water cooling to remove the resulting polishing residue. If excess has already been removed with a fine-grain diamond grinding instrument or if the surfaces of the restoration are rather smooth, the first step (Astropol F) can be forgone. Recommended speed: 7,500–10,000 rpm.

**OptraPol**

As an alternative, the OptraPol® one-step polishing system can be used. The following instructions should be observed:
- Speed: 5,000–8,000 rpm
- Only use in conjunction with copious water spray.

The restoration is polished to a high gloss in only one polishing step and medium contact pressure.

In the laboratory

Prepolishing is performed with rubber polishers and silicone wheels with various abrasive levels from rough to fine. A high gloss is achieved with a goat hair brush, cotton or leather buffing wheel as well as SR® Universal polishing paste.
Individualization (cut-back technique)

To fabricate highly esthetic temporary restorations, especially in the anterior region, the incisal/occlusal third may be veneered using the light-curing laboratory composite (e.g., SR Nexco). The individual working steps are briefly described below.

For a detailed description of the individual working steps, please refer to the Instructions for Use of SR Nexco.

Blast the area to be supplemented (Al₂O₃, 80-100 µm, 1-2 bar / 15-29 psi). Then clean with steam and dry with oil-free compressed air. Then apply SR Connect, let it react for 2-3 min and subsequently polymerize for 40 s (e.g., Bluephase® Style).

Partially reduced Telio CAD restorations fitted on the model. The cut-back may be carried out by using a suitable CAD/CAM milling system or by manual reduction.

Application of SR Nexco stains...

... and SR Nexco materials

Individualized Telio CAD restorations before and after polymerization
Completed Telio CAD restoration characterized with SR Nexco on the working model

SR Nexco Stains must not be left on the surface of restorations, they have to be covered. We recommend careful polishing for lab-fabricated temporaries.
Relining Telio® CAD restorations

Prepare the inner surfaces by grinding and/or abrasive blasting (Al₂O₃, 80-100 µm grit at 1–2 bar).

Clean with a steam cleaner and then dry with oil-free compressed air. Then wet the roughened area extraorally with Telio Activator. Agitate Telio Activator for at least 30 seconds over the entire surface using an application brush in order to achieve even distribution and quicker penetration. Subsequently, allow the Activator to react for another 30-60 seconds (total reaction time 1-2 minutes).

Now apply the Heliobond bonding agent, thinly disperse it with blown air and polymerize for 10 s (e.g. Bluephase® Style).

For the relining, apply the mixed Telio CS C&B to the inner aspect of the crowns. Keep the mixing tip immersed in the material to prevent bubbles. If required, the material may also be syringed around the prepared teeth to avoid bubble formation along the preparation margin.
The curing time is approx. 3 min at room temperature (23 °C / 73 °F). After that, Telio CS C&B is in a hardelastic, partially cured state and can be removed from the oral cavity together with the Telio CAD restoration. After complete curing (4–5 min), finishing is carried out extraorally. Cross-cut tungsten carbide burs are suitable for finishing; for polishing, use silicon carbide rubber polishers (e.g. OptraPol, Astropol).
Corrections and adjustments

In the practice (e.g. with Telio Add-On Flow or Tetric EvoCeram®)

Blast the area to be supplemented (Al₂O₃, 80-100 µm, 1-2 bar / 15-29 psi) or roughen with coarse diamond burs. Subsequently, there are two possible approaches to condition the surface:

a) Use of Telio Activator and Heliobond

Wet the area to be supplemented extraorally with Telio Activator. Agitate the Activator for at least 30 seconds over the entire surface using an application brush in order to achieve even distribution and quicker penetration. Subsequently, allow the Activator to react for another 30-60 seconds (total reaction time 1-2 minutes). Now apply the Heliobond bonding agent, thinly disperse it with blown air and polymerize for ≥10 s.

b) Use of SR Connect

Extraorally apply a thin layer of SR Connect on the conditioned surface using a disposable brush, allow to react for 2–3 min and subsequently polymerize for 40 s (e.g. Bluephase Style).

Subsequently, apply the light-curing Telio Add-on Flow in layers of max. 2 mm and adapt it using a suitable instrument. Light cure each layer for 40 s (e.g. Bluephase Style). As an alternative, other light-curing Ivoclar Vivadent composites can be used.

In the laboratory (e.g. with SR Nexco or Telio Lab)

a) With SR Nexco (light-curing)

Roughen the area to be supplemented by grinding or sand blast (Al₂O₃, 80-100 µm, 1-2 bar / 15-29 psi). Then clean with steam and dry with oil-free compressed air. Apply SR Connect according to the Instructions for Use, cure and subsequently layer the SR Nexco materials (see SR Nexco Instructions for Use).

b) With Telio Lab (cold-curing):

Roughen the area to be supplemented by grinding or sand blast (Al₂O₃, 80-100 µm, 1-2 bar / 15-29 psi). Then clean with steam and dry with oil-free compressed air. Subsequently, condition with Telio Activator or Telio Lab Cold Liquid. For this purpose, distribute Telio Activator evenly but generously on the conditioned surface and allow it to react for at least 2 min to a maximum of 4 min. Start applying Telio lab materials immediately afterwards (see Telio Lab Instructions for Use).
Cementation

Telio CS Link is recommended for temporary cementation. If the restoration is worn for longer periods of time and a reliable bond is desired, adhesive cementation is recommended.

a) Temporary cementation
If no liner was applied, sand blast the inner surfaces of the restoration (Al₂O₃, 80-100 µm, 1-2 bar / 15-29 psi) or roughen it using a coarse diamond bur (after the application of a liner, do not sand blast/roughen the surfaces).

Optional: Telio CS Desensitizer
To reduce sensitivity, Telio CS Desensitizer can be applied before cementation.
Keep the working field dry for this purpose (e.g. cotton rolls). Apply Telio CS Desensitizer on the dentin and agitate it for 10 s using a brush or an applicator brush. Disperse the excess carefully with blown air.

Subsequently, incorporate the restoration with eugenol-free temporary cement (e.g. Telio CS Link).

Telio CS Link
Telio CS Link is a dual-curing (light- and self-curing) temporary composite cement to be used for the esthetic temporary cementation of provisional restorations.

– Long-term temporaries have to be checked and re-examined at regular intervals so that the restoration can be recemented, if necessary.
– Prevention of premature loss of retention:
    Apart from a retentive preparation design, the reliable cementation of Telio CAD restorations using a temporary luting material (e.g. Telio CS Link) depends on the accuracy of fit, which is determined by the CAD/CAM system used.
Optional

Application of a desensitizer

Telio CS Desensitizer makes the temporary restoration phase more comfortable for patients, since it reduces the sensitivity of prepared, and in some cases exposed, dentin surfaces. For the application of Telio CS Desensitizer, the dentin surfaces should be dry and clean.

Rinse the preparation with water.

Subsequently, dry with an air syringe and oil-free air. (Do not overdry the dentin.)

Apply Telio CS Desensitizer and brush it into the dentin for 10 seconds using a suitable instrument (brush, applicator brush).

Carefully disperse excess to a thin layer / dry with an air syringe. (Do not overdry the dentin.)
Telio® CAD Monolithic Solutions – Fabrication process

- Accelerated curing of the cement using the curing light
- Removal of excess material with a scaler and dental floss
- Direct application of Telio CS Link into the temporary restoration
- Seating on the prepared teeth

![Direct application of Telio CS Link into the temporary restoration](image1)

![Seating on the prepared teeth](image2)

![Accelerated curing of the cement using the curing light](image3)

![Removal of excess material with a scaler and dental floss](image4)
b) Adhesive cementation

Preparing the Telio CAD restoration

The conditioning of the PMMA surface to prepare the restoration for adhesive cementation is decisive for a reliable bond between the luting material and the PMMA.

To prepare the restoration for adhesive cementation, please observe the following procedure:
– Blast the inner surfaces of the Telio CAD restoration (Al₂O₃, 80-100 µm, 1-2 bar / 15-29 psi) or roughen it using a coarse diamond bur.
– Clean the Telio CAD restoration in an ultrasonic bath or with the steam jet and subsequently blow dry.
– After the bonding surface has been cleaned, it must not be contaminated under any circumstances as this would impair the bond.
– Thinly coat the bonding surface with SR Connect using a disposable brush and allow it to react for 2-3 min. Then polymerize according to the polymerization table.

<table>
<thead>
<tr>
<th>Device</th>
<th>Bluephase® Style (1,200 ± 10% mW/cm²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>Ivoclar Vivadent AG</td>
</tr>
<tr>
<td>SR Connect</td>
<td>40 s</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lumamat 100</th>
<th>Spectramat</th>
<th>Labolight LV-III</th>
<th>Solidilite V</th>
<th>Visio Beta Vario</th>
<th>HiLite Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ivoclar Vivadent</td>
<td>Ivoclar Vivadent</td>
<td>GC</td>
<td>Shofu</td>
<td>3M</td>
<td>Heraeus Kulzer</td>
</tr>
<tr>
<td>P2: 11 min</td>
<td>2 min</td>
<td>3 min</td>
<td>3 min</td>
<td>4 x 20 s</td>
<td>90 s</td>
</tr>
</tbody>
</table>

Status 2014

The SR Connect reaction time must be observed.

Cementation of Telio CAD restorations

For the adhesive cementation of Telio CAD, one of the proven luting composites from Ivoclar Vivadent can be used:

**Variolink Esthetic**

The esthetic, light- and dual-curing adhesive luting system for the permanent cementation of ceramic and composite resin restorations.

**Multilink Automix**

The universal self-curing luting composite with light-curing option is suitable for the adhesive cementation of indirect restorations (inlays, onlays, crowns, bridges and root canal posts) made of metal, metal-ceramic, glass-ceramics, lithium disilicate, oxide ceramics and composite resins.

Please observe the Instructions for Use of the cementation material in use.

⚠️ When adhesively cemented, it might be harder to remove the restoration.
Frequently Asked Questions

Why should I use a Telio CAD block, if I could immediately mill a restoration for permanent cementation?

If the prognosis is ambiguous, a temporary restoration with Telio CAD is suitable to create a sound periodontal and endodontic situation before the permanent restoration is incorporated. Moreover, Telio CAD restorations are suitable as “therapeutic restorations”, since they can be used, for example, to increase the vertical dimension before it is actually permanently implemented. Economic considerations of the patients may also speak in favour of a long-term temporary made of Telio CAD as an intermediate solution.

Which polishers should be used for excellent polishing results with Telio CAD?

OptraPol is excellently suitable for intraoral polishing.
In the laboratory: Prepolishing with rubber polishers and silicone wheels. A high gloss is achieved with goat hair brush, cotton or leather buffing wheel as well as Universal polishing paste.

Is it possible to characterize the Telio CAD restorations with SR Nexco Stains without a cut-back?

No - the layer thickness is too thin and abrades too quickly or will be polished off immediately. The use of the Stains without covering them is contraindicated (both in the laboratory and the dental office!)
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