

Gingiva Solution

SR Nexco®

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Gingiva Solution –
Prosthetic gingiva manual



Natural-looking restorations

High-quality lab-fabricated dental restorations are characterized by a natural appearance as well as high biocompatibility and hygiene capability. Special emphasis is placed on achieving "white esthetics" as this is decisive for the patient's positive perception of the prosthetic restoration and the overall treatment success.

As the number of extensive restorations is increasing, the reconstruction of missing gingiva in a natural-looking manner based on the principles of "pink esthetics" is becoming more and more important. The colour, shape and texture of the patient's gumline need to be faithfully reproduced and individual requirements taken into account.

This manual illustrates how to successfully fabricate prosthetic gingival restorations. The fabrication of a metal-supported restoration for a middle-aged patient is shown in detail using the light-curing lab composite SR Nexco. Special focus is placed on showing how to reconstruct the different gingival areas.

Further publications provide guidance on the fabrication of prosthetic gingiva taking age-related and ethnic aspects into account by using different products and materials. Ivoclar Vivadent's well-coordinated range of products affords a suitable solution for every case.



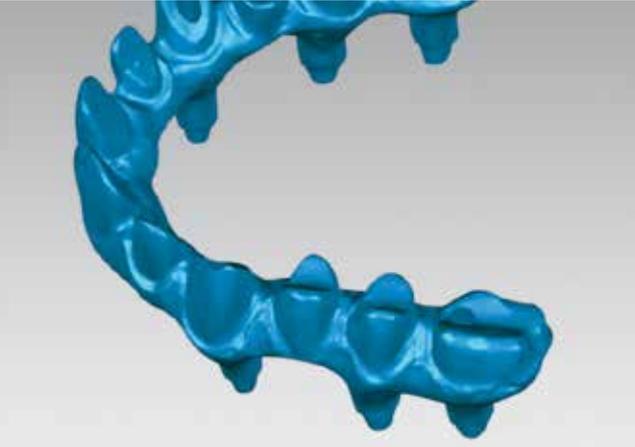
Framework design



Full-contour wax-up of the planned restoration



Framework modelled in resin



Digital view of the upper framework



Completed framework

In the fabrication of high-quality implant restorations, a precise, full-contour wax-up needs to be created. It allows the appropriate dimensions to be transferred to the framework, which may be made of alloy, titanium or zirconium oxide and represents the basis for the veneering procedure.

Dental veneering



The cervical areas are created using Margin material.



Customization of the veneer



Dentin build-up



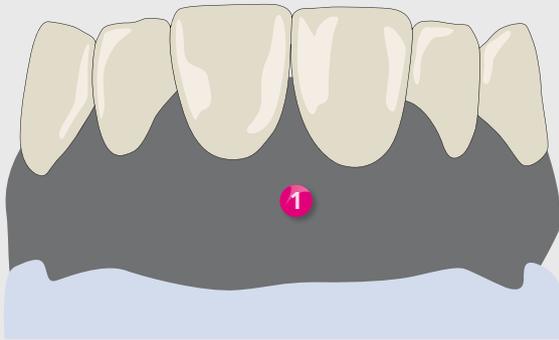
The build-up is completed with different Incisal / Effect materials.

The full-contour wax-up serves as the basis for the planning and fabrication of the veneer. Other than the application of individual characterizations, the fabrication of the veneers is based on customary biomechanical principles.

Gingival veneering



Completed, unpolished dental veneer



1 Metal/resin bonding agent

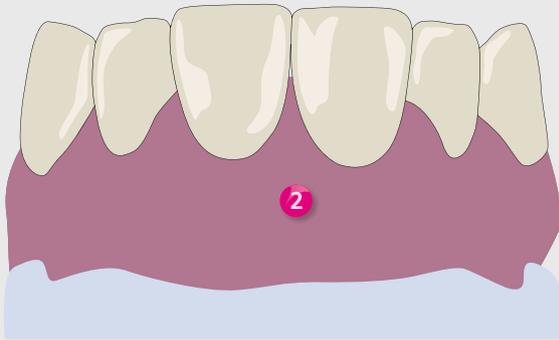


Preparation

The metal components to be veneered with Gingiva material are blasted with 80–100 μm Al_2O_3 (at 2–3 bar/29–44 psi) and wetted with SR Link bonding agent. This creates an optimum bond between the metal and the composite resin.

Gingival veneering





2 The metal base has been completely masked with Gingiva opaquer.

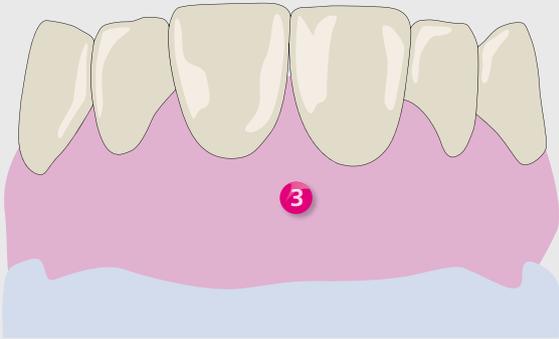


Application of opaquer

Two thin coats of Gingiva opaquer are applied. In a first step, a thin "wash" layer of opaquer is applied. After the wash opaquer layer has been polymerized, a second, covering layer of opaquer can be applied and polymerized.

Gingival veneering





3 Basic Gingiva BG34

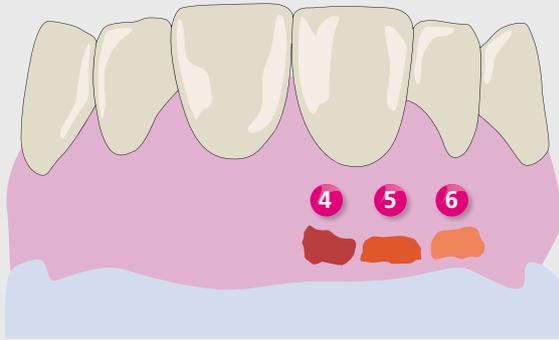


Application of Basic Gingiva

To obtain an idea of the final outline of the prosthetic work, the gingiva to be reconstructed is shaped roughly by gradually applying Basic Gingiva BG34.

Gingival veneering





4 Intensive Gingiva IG1 5 Intensive Gingiva IG2 6 Intensive Gingiva IG4

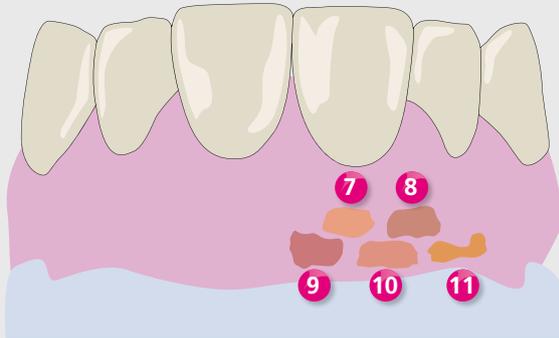


Mobile mucosa

The transition from the immobile to the mobile mucosa is simulated by applying different Intensive Gingiva materials. As the vessels and muscles are well supplied with blood in this area, the tissue appears darker.

Gingival veneering



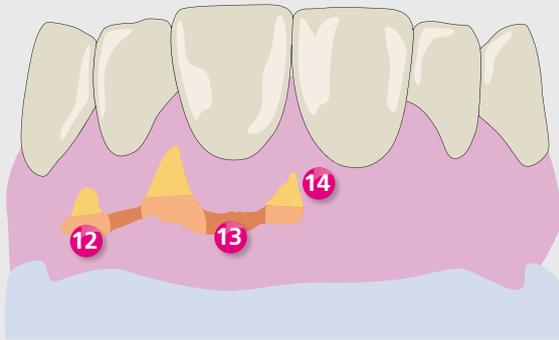


Mobile mucosa

More translucent Gingiva shades applied to the darker areas of the gingiva create a depth effect which is essential to attain natural-looking gingival esthetics.

Gingival veneering





12 Basic Gingiva BG34 13 Intensive Gingiva IG3 14 Intensive Gingiva IG5

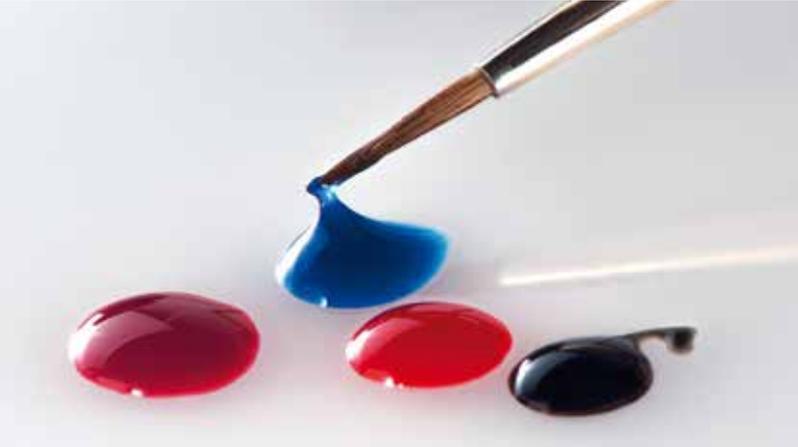


Immobile mucosa

The immobile mucosa sits directly on the jawbone. The alveolar tubercle and the interstitial spaces are therefore clearly visible. If desired or indicated by an individual model, Intensive Gingiva shades are applied individually or combined to achieve an appropriate shade effect.

Gingival veneering





Fine characterization

Individual characterizations (e.g. to simulate blood vessels) can be added using stains. They are processed in the same way as the Gingiva materials. The stains must be covered with a thin layer of Gingiva G1 and Gingiva G2.

Gingival veneering





Final polymerization

Before final polymerization, a covering but not too thick a layer of SR Gel is applied to the completed gingival portions. This prevents the formation of an inhibition layer.

Finising and polishing



Cross-cut tungsten carbide burs are used for shape adjustments.



Applying "dimpled skin" surface texture



Instruments set



Polishing with Universal Polishing Paste

Finishing and final polishing is performed with customary instruments. A very natural-looking shine is achieved with Universal Polishing Paste.

Final results





Final results





Dental-lab work: MDT Thorsten Michel, Schorndorf, Germany

Product information

SR Nexco Paste is a purely light-curing laboratory composite with micro-opal fillers, suitable for framework-supported and framework-free prosthetic restorations. As the desired shades can be reproduced regardless of the layer thickness, a true-to-nature appearance can be achieved for fixed and removable dental restorations, even with artificial gingiva.



Gingiva
Opaquers



pink

Basic
Gingiva



BG34

Gingiva



G1



G2



G3



G4



G5

Intensive
Gingiva



IG1



IG2



IG3



IG4



IG5

The Gingiva materials of the SR Nexco range can be applied to metal frameworks and PMMA-based denture bases. A light-curing opaquer (pink) is available for masking metal structures. The SR Nexco range comprises five patient-oriented Gingiva materials and five additional Intensive Gingiva shades. SR Nexco Paste Basic Gingiva is used as the basis for creating customized shades. It is also used in combination with denture base materials.





SR Nexco Paste Polymerization Table

Appliance	Manufacturer	Opaquer*	Dentin**	Liner, Incisal, Effect**, Margin**	Gingiva**	Stains***	SR Connect	Final polymerization
Quick Lumamat 100	Ivoclar Vivadent AG	20 s Quick P2 / 11 min	20 s Quick	20 s Quick	20 s Quick	20 s Quick		
Spectramat	Ivoclar Vivadent AG	5 min	5 min	2 min	5 min	2 min	2 min	5 min
Labolight LV-III	GC	5 min	2 min	2 min	5 min	2 min	3 min	5 min
Solidilite V	Shofu	3 min	1 min	1 min	3 min	1 min	3 min	5 min
Visio Beta Vario	3M Espe	7 min no vacuum	4 x 20 s Visio Alfa	4 x 20 s Visio Alfa	4 x 20 s Visio Alfa	4 x 20 s Visio Alfa	4 x 20 s Visio Alfa	2 x 7 min no vacuum
HiLite	Heraeus	180 s	90 s	90 s	90 s	90 s	90 s	180 s

Important information:

Indications based on tests conducted by R&D, Ivoclar Vivadent Schaan, Liechtenstein. The indications are without obligation and do not exempt the user from observing the recommended polymerization times for the different polymerization units according to the respective manufacturer's directions. Regular maintenance and functional checks of the polymerization units are also required.

Note:

Polymerization units suitable for pre-curing: Quick (Ivoclar Vivadent AG), HiLite pre (Heraeus), Visio Alfa (3M), Sublite V (Shofu), Steplight SL-I (GC)

- * The first opaquer layer is applied thinly and pre-cured. Then a second, covering layer is applied and cured according to the polymerization table.
- ** The maximum layer thickness must be observed! If necessary, pre-curing must be performed.
- *** Stains should only be applied in very thin layers – only a shallow depth of cure is achieved in conjunction with dark shades.

Please observe the corresponding Instructions for Use.

Gingival veneering



SR Link



2x Opaquer



Removal of the inhibition layer



Basic Gingiva



Gingiva and Intensive Gingiva



SR Gel



Finishing

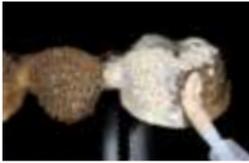


Polishing

Veneered metal framework



Al₂O₃, 80-100 μm, 2-3 bar
(29-44 psi) SR Link



2x Opaquer



Removal of the inhibition layer



Stains + Dentin



Incisal + Effect Shades



SR Gel



Finishing



Polishing



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