

# SR Nexco®

The light-curing lab composite

Lifelike  
appearance:  
made easy



Sophisticated properties:

## SR Nexco® **speaks for itself**

The light-curing lab composite SR Nexco® has outstanding physical and processing properties. Furthermore, it is characterized by a lovely appearance and excellent clinical behaviour. The material's force-absorbing effects represent a major benefit for implant-supported restorations.

The extensive product portfolio of SR Nexco ensures customized solutions and ease of use of the individual components.

- **True-to-nature appearance due to micro-opal fillers**
- **Wear resistance and gloss stability**
- **Tested in combination with commercially available polymerization devices**
- **Suitable for use on various framework materials**



# Micro-opal fillers in the nano-meter range: **Lifelike results made easy**

## Harmonious shade match under different light conditions

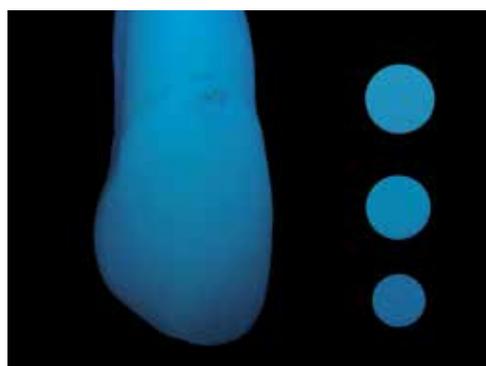
The composition of SR Nexco features a high content of micro-opal fillers. As a result, the optical properties of the restorations are comparable to those of natural teeth: The opalescent and fluorescent characteristics are extremely lifelike. A harmonious shade match is achieved in different restorations and under varying light conditions.

## Comparison of the light-optical properties of SR Nexco and natural tooth structure



SR Nexco restoration in transmitted light

The optical properties of SR Nexco look their best in transmitted light: The opalescent and translucent restoration surfaces show the same dynamic light effects as natural teeth. All the SR Nexco components show these characteristics: the cervical, dentin and incisal materials.



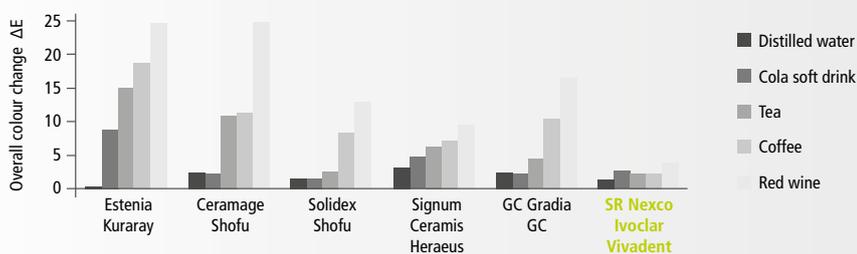
SR Nexco restoration in incident light

The image taken in incident light highlights the fluorescence and luminosity of SR Nexco. These properties play an important role in attaining the true-to-nature light behaviour of the restorations: Natural teeth derive a major part of their brightness from their fluorescence.

# Tried and tested: **Well balanced in every respect**

A variety of physical properties determine the quality of a laboratory composite. SR Nexco features a clever and well-balanced combination of these essential characteristics. The resulting restorations show excellent wear and shine and outstanding shade stability.

## Shade stability examination after 5-week exposure



Source: Nippon Dental University School of Life Dentistry in Tokyo (Dr Shinya), 2012

# Polymerization as usual:

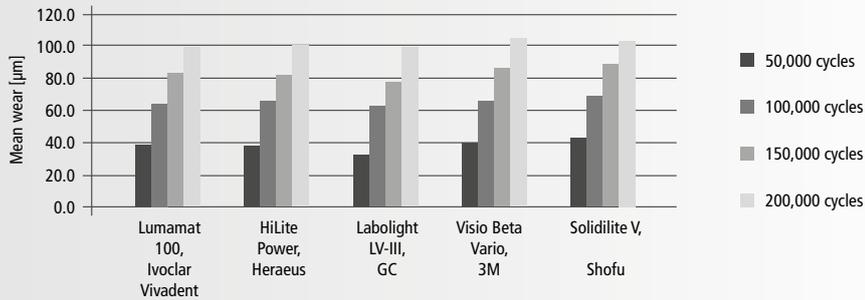
## Everything stays the same

### Excellent wear resistance and gloss stability

SR Nexco is cured with light. The material can be thoroughly and reliably cured in many of the commercially available polymerization devices. As a consequence, operators do not have to invest in new equipment or familiarize themselves with new techniques.

During the polymerization process, SR Nexco develops its many desirable physical properties. Furthermore, the restorations are imparted with a homogenous, natural-looking surface. They show long-lasting shade and gloss stability.

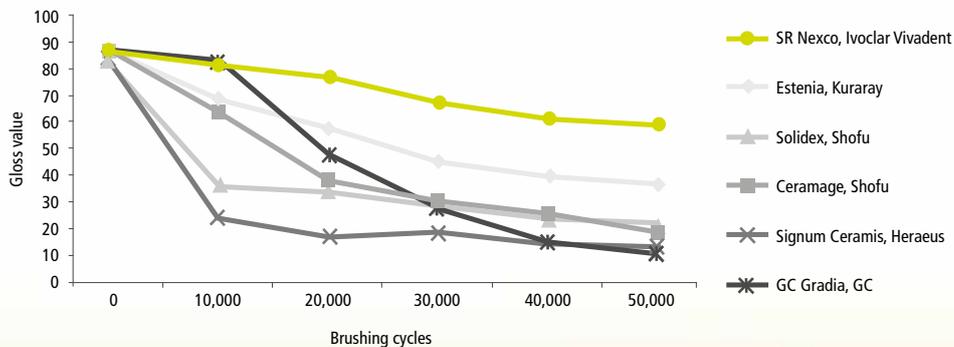
### Wear tests involving different polymerization units



Wear resistance of SR Nexco tested according to the ACTA method in approved polymerization units

Source: Polyclinic for dental prosthetics, Dr Martin Rosentritt, Regensburg, 2011

### Gloss stability after simulated tooth brushing



SR Nexco samples show significantly higher gloss stability compared with other tested materials after simulated tooth brushing.

Source: Nippon Dental University School of Life Dentistry, Dr Shinya, Tokyo, 2012

# Versatile applications:

## The framework is not decisive

SR Nexco is suitable for fabricating restorations with or without a framework:

### Framework-free indications:

- Inlays/Onlays/Veneers
- Anterior crowns

In framework-free restorations, SR Nexco Liner and SR Nexco Paste Dentin are responsible for producing smooth shade transitions. The restorations harmoniously blend into the tooth structure. The comprehensive product range offers an adequate solution even in the case of stained or devitalized teeth.

### Framework-based indications

Veneering of

- metal-supported frameworks (also digitally manufactured)
- zirconium oxide-supported frameworks (ZrO<sub>2</sub>)
- combination dentures (e.g. veneering of telescope crowns)
- implant superstructures (partially removable)
- gingival portions (partially removable implant superstructures)
- model cast frameworks with SR Nexco Opaquer pink

# Advanced product system:

## Ready for everything

### Optimum conditioning

A strong bond between the framework material and SR Nexco establishes a sound basis for a reliable and esthetic dental restoration. The bonding agent SR Link provides the key to this part of the procedure. It conditions conventional metal frameworks as well as frameworks made of zirconium oxide ( $ZrO_2$ ).



### Application on zirconium oxide frameworks

SR Nexco also unfolds its well-balanced physical and processing properties on zirconium oxide frameworks. Due to the micro-opal fillers, the restorations are imparted with lifelike translucency, opalescence and fluorescence. The frameworks are prepared and the materials applied in the same way as in the veneering of metal frameworks.



Zirconium oxide restoration veneered with SR Nexco  
*Annette von Hajmasy, MDT, Germany*

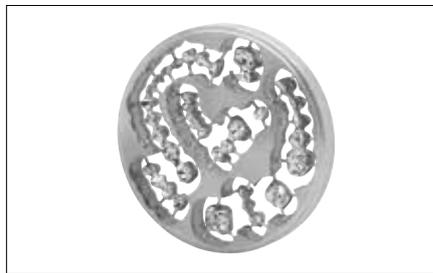
# Extensive possibilities: Create what you like

## Conventional or digital

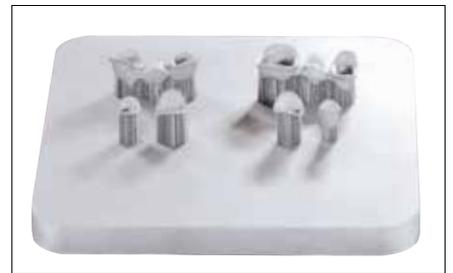
SR Nexco can be used on traditionally cast or digitally manufactured frameworks. The appearance of the restorations in both cases is natural-looking due to the micro-opal fillers.



Conventionally fabricated framework  
(casting technique)



CAD/CAM-manufactured framework  
(CNC milling)

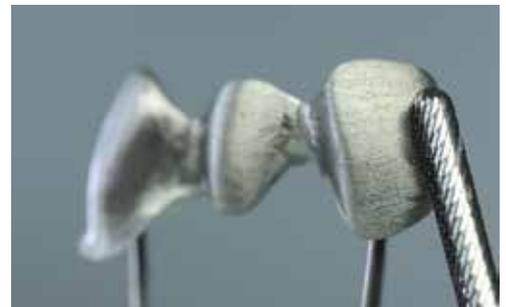


CAD/CAM-manufactured framework  
(selective laser sintering)

## Matching alloys

Ivoclar Vivadent offers a comprehensive assortment of alloys. Several of these alloys have been specially tested and approved for use with SR Nexco. As a consequence, the selection of a suitable alloy is made easy and the fabrication process is highly reliable.

Precious as well as base metal alloys and many other types of alloys are available: for conventionally fabricated frameworks (e.g. Colado CC, Harmony 3) and for digitally manufactured frameworks (e.g. Colado CAD CoCr4, Colado CAD Ti2/Ti5).



## Composite on composite

CAD/CAM-manufactured temporary restorations made with the cross-linked PMMA material Telio® CAD are effortlessly completed with SR Nexco. As a result, highly esthetic provisional restorations can be fabricated and the gingiva reconstructed with comparatively little effort and targeted adjustments.



# Lifelike and with ease:

## Pink esthetics at their best

### Gingiva Solution

In many clinical cases, gingival components have to be reconstructed. The versatile products and shades of the Gingiva Solution system provide an answer in these situations – for both fixed and removable restorations. The gingival parts of metal and metal-ceramic solutions as well as composite restorations can be recreated in accordance with the age specific characteristics of the patient's teeth.

The different materials are applied in individual layers. They are used to reproduce various pigmented areas and regions showing different levels of blood supply.

Outstanding pink esthetics are due to

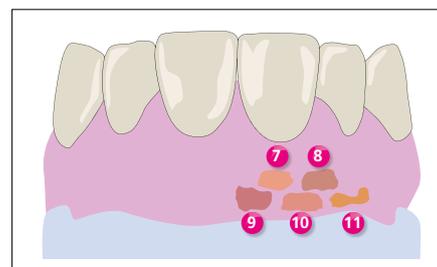
- numerous shades for IPS e.max®, IPS Style®, IPS InLine® and SR Nexco®
- standardized shade designations
- easy combination possibilities

### Customization of denture teeth

Denture teeth are imparted with lifelike characteristics by applying slight modifications and specific characteristics. The light-curing bonding agent SR Connect mediates a sound bond between SR Nexco materials and acrylic denture teeth (e.g. SR Phonares® II). The shades of SR Nexco are matched to those of SR Phonares II.

### Selective adjustments

The restoration and the artificial gingiva can be adjusted after the insertion process. SR Nexco can be applied and cured in the mouth. As a result, the restoration can be adjusted to the changes involving the gums and the teeth at any given time.



Coatings of translucent gingival materials on the dark areas of the gingiva produce an effect of depth. This is decisive for a natural-looking shade result.

*Thorsten Michel, MDT, Germany*



Upper jaw: Tissue-supported complete denture featuring artificial gingiva (Ivobase) customized with SR Nexco, denture teeth SR Phonares® II  
Lower jaw: Screwed, implant-supported titanium framework veneered with SR Nexco  
*Vinko Iljadica, DT, Croatia*

# Designed by experts: **Veneered in a jiffy**

## **SR Nexco Flask**

The flask technique allows you to tackle extensive denture work with utmost efficiency. The details provided by the wax-up are used to press the composite directly and precisely on the final restoration. This approach ensures reproducible results and allows restorations to be repaired quickly and easily.

SR Nexco Flask is coordinated with the SR Nexco composite. Therefore, even and homogenous press results are produced. The lab composite is applied without having to be warmed up.



### **Smooth-running, fully removable screws**

Fixation of both flask halves on top of each other

### **Injection openings**

Designed to precisely accommodate the mixing tips of Transil F clear silicone

### **Transparent cover in two sizes**

Even polymerization from all sides

### **Notches**

Easy separation of the top and bottom parts



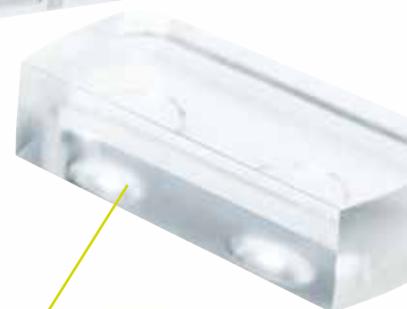
### **Positioning pegs**

Stable and reliable fixation of the top and bottom parts



### **Removable base plate**

Flexibility and height adjustment option



### **Block-out**

Material savings in the case of smaller restorations

### Design in tune with the material

The clear silicone Transil F is specifically designed for use with SR Nexco Flask: The mixing tips precisely fit into the injection openings of the SR Nexco Flask cover. Due to the specific hardness and transparency of the silicone, the counter mould can be reproduced quickly and with utmost precision.

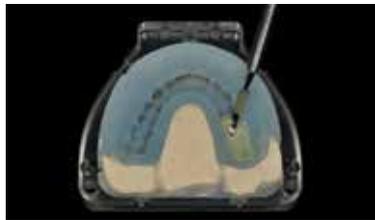
### Large spectrum of application

SR Nexco Flask is suitable for producing metal-supported and implant-supported restorations as well as removable and fixed dentures and even zirconium oxide-based restorations. Dentin and incisal areas are pressed according to the same procedure.

## Implant-supported zirconium oxide framework: Press-over technique with SR Nexco Flask



Invested wax-up. Injection of Transil F to produce the opposing mould



Injection of SR Nexco composite into the opposing mould



The fabricated matrix provides an exact guideline for the cut-back procedure.



Final, pressed restoration featuring gingival parts layered with SR Nexco

“ I have been working with the flask technique for many years. SR Nexco Flask provides me with the flexibility I need to fabricate my restorations. ”



Annette von Hajmasy, MDT, Germany



## Fixed Prosthetics

SR Nexco® forms a part of the “Fixed Prosthetics” product category. The products of this category cover the procedure involved in the fabrication of fixed prosthetic restorations – from temporization to restoration care. The products are optimally coordinated with each other and enable successful processing and application.



### THESE ARE FURTHER PRODUCTS OF THIS CATEGORY:

## Alloys

An alloy selection like no other



Performance, quality, trust

- Broad range of alloys adjusted to the requirements of modern dentistry
- Ideally coordinated with ceramic and composite veneering materials
- More than 100 years of experience in dental alloys

## Multilink® Automix

The adhesive cementation system



A strong bond, proven performance

- Strong hold – both dual and self-curing
- Universal – suitable for silicate and oxide ceramics as well as metal
- Clinically proven – numerous long-term studies

Would you like to know more about the products of the “Fixed Prosthetics” category? Simply get in touch with your contact person at Ivoclar Vivadent or visit [www.ivoclarvivadent.com](http://www.ivoclarvivadent.com) for more information.

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