

Concise Product Knowledge

HOFFMANN'S Harmonic Shades



Application areas:

Trying-in and final cementation of crowns and bridges made of oxide ceramics (zircon and aluminium oxide) as well as lithium disilicate ceramics with a strength of more than 200 MPa with the possibility of:

1. Colour shade correction of the restoration to adapt to the remaining teeth
 - Lightening (colour 01 and shades mixed with 01)
 - Darkening (colour 07, 10, 11)
 - Colour shade correction of restorations (all colour shades and mixed shades)
2. Matching of differently shaded tooth stumps
3. Imitation of living pulp (colour 15)

Composition

Powder:	Zinc oxide, magnesium oxide;
Cement liquid:	o-phosphoric acid
Test Fluid:	Propane-I,II,III-Triol

Contents:		Order No.:
Hoffmann's Harmonic Shades Set		Order No. 82200
		Re-order No.:
Cement liquid	40 ml	Order No. 82300
Test Fluid	40 ml	Order No. 88800
Cements:		
01 white	100 g	Order No. 82201
07 golden brown	30 g	Order No. 82507
10 greenish grey	30 g	Order No. 82510
11 bluish grey	30 g	Order No. 82511
15 pink	30 g	Order No. 82515
Technical data:		
CE 0482		
Setting time:	Hoffmann's 4:00–7:30 min.	ISO-Norm 2:30–8:00 min.
Compressive strength:	90 - 130 MPa	50 MPa
Film thickness:	< 20 µm	< 25 µm
ISO 9917		

Hoffmann's products are in accordance with ISO 9917, furthermore they are subject to much more stringent internal test criteria.



Information valid as at: February 2009

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Product:

Zinc phosphate cement in five shades: White, gold, green-grey, grey, pink with test fluid and cement liquid

Application:

Try-in and definitive cementation of crowns and bridges made of high-strength solid ceramics with a flexural strength of more than 200 MPa.

Advantages at a glance:

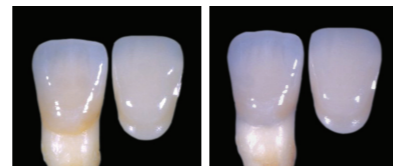
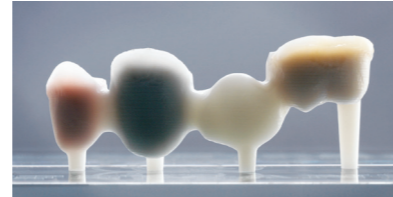
- Particle size distribution perfectly matched to the surface of oxide ceramics
- Thin film-thickness of max. 20 µm
- More than a century's worth of clinical experience
- Low allergy potential in harmony with bio-compatibility of oxide ceramics
- Mineral food pigments
- Matching of differently shaded tooth stumps through opacity
- Try-in with test fluid
- Easy handling, simple removal of excess material

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Zinc phosphate cement for oxide ceramics

Modern, translucent oxide ceramics with a strength of more than 200 MPa can be conventionally cemented with zinc phosphate cements. In comparison to all other bonding materials, zinc phosphate cement possesses a long and successful clinical history and displays very good pulp tolerance. By using various cement shades, the aesthetic result in the oral cavity can be perfected. Additionally, if need be, the removal of a restoration that has been bonded with zinc phosphate cement is possible, even without causing any damage.



Colour modification through yellow-like cement (colour 07) or grey cement (colour 11).

Application of coloured cements

Due to their opacity, coloured cements will provide uniform priming and a harmonious restoration in case of differently shaded tooth stumps, or in case of metal post and cores and implant abutments.

Similarly, the colour of restorations can be adapted to the remaining teeth if need be without having to carry out another ceramic firing in the dental laboratory. In order to reach a lighter shade, one uses colour 01 or colours mixed with 01. In order to achieve a darker shade towards yellow, green or red one uses the colours 07, 10, 11 and 15 or their mixed shades respectively. Making a devital stump look vital can be achieved by using the pink cement (colour 15).

We recommend that all colours are mixed with the test fluid and tried-in situ before final cementation. Cement that is mixed with test fluid will not set and corresponds exactly to the colour shade of the final cement with cement liquid.



Colour modification through pink-coloured cement (colour 15).



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The cement is recommended for cementation of crowns and bridges made of oxide ceramics (zircon oxide and aluminium oxide) as well as lithium disilicate ceramics with a strength of more than 200 MPa. Please refer to the chart below to find out the suitable ceramics from well-known manufacturers. We explicitly advise that the list is not exhaustive.

Company	System	Name
3M Espe	LavaTM	LavaTM
Bien-Air	DCS	DC-Zirkon® DC-Zirkon®Col DC-Leolux® DC-Procura DC Shrink
DeguDent	Cercon smart ceramics®	Cercon® base
Dental Fräswerk AG	LEOX®	LEOX® Zirkon Premium Zr Al LEOX® Zirkon Premium Zr plus LEOX® Zirkon Tec color
Etkon	es1	zerion® Denzir® HIP-Zirkonia Premium
Ivoclar Vivadent	-	IPS e.max Press IPS e.max ZirCAD IPS e.max CAD IPS Empress 2
Kavo	Everest	Everest BIO ZH
Nobel Biocare	Procera®	Procera® Crown Zirconia Procera® Crown Alumina Procera® Bridge Zirconia Procera® Bridge Alumina
Sirona	Cerec InLab	inCoris ZI inCoris ZI XL inCoris AL
Vita	-	Vita In-CeramYZ Vita In-Ceram AL Vita In-Ceram ZIRCONIA Vita In-Ceram ALUMINA
Wieland	Zeno®	Zeno®Al Zeno®Zr
Zirkonzahn	Zirkonzahn®	Zirkonzahn® ICE Zirkon
Zfx Zirkon	Zfx Zirkon	Zfx-Zirkon effect / opal