



HOFFMANN'S

HOFFMANN'S Harmonic Shades

Zinc phosphate cement for oxide ceramics

Instruction for use for the dentist

Zinc phosphate cement for oxide ceramics:

Due to its low risk of causing allergies Zinc phosphate cement is consistent with the biocompatibility of oxide ceramics. By using various cement shades, the aesthetic result in the oral cavity can be perfected. Required is the usage of a modern and translucent oxide ceramic.

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).

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.

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.

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)

colours/shades:

- 01 (white)
- 07 (golden brown)
- 10 (greenish grey)
- 11 (bluish grey)
- 15 (pink)

1. HOFFMANN'S TEST FLUID

Composition:

Test Fluid:: Propane-I,II,III-Triol

Dispensing instructions:

2,0g powder: 0,55g liquid

Processing:

A clean and dry glass plate, as well as a non-discolouring spatula are recommended for the mixing process. The measured amount of powder is evenly mixed into the liquid. The test consistency is reached when the mixture stands and you are able to pull a peak with the spatula. Additional powder and liquid can be added to optimize the consistency. The mixture appears more fluid than mixed with normal cement liquid.

Cement mixed with test fluid does not set therefore there is no time recommendation for mixing and processing.

Cement mixed with test fluid is water soluble and can easily be removed from the restoration with running water.

Pay attention to a thorough cleaning and drying of the restoration and the tooth stumps before definite cementation.

Cement mixed with test fluid corresponds exactly to the colour shade of the final cement with cement liquid.

Colour variations are possible.

Please use the table for a better reconstruction of the perfect colour mixture.

Special information:

- Leftovers of the powder and contaminated liquid should be discarded.
- Containers should be closed immediately after usage.

- Do not switch the closing caps of the test fluids with cement liquids.
- Do not use after the expiration date.

2. HOFFMANN'S CEMENT

Composition:

Powder contains: zinc oxide, magnesium oxide;

Liquid contains: o-phosphoric acid

Dispensing instructions:

Cementation consistency:

1.5 g powder : 1.0 g liquid

Dispensing and testing climate for testing in accordance with DIN EN ISO 9917:

Mix quantities indicated at $23 \pm 1^\circ\text{C}$ and a relative humidity of $50 \pm 10\%$.

Processing recommendations:

A clean, dry glass plate at ca. 20°C (68°F) and a non-discolouring spatula are recommended for mixing

Mixing:

In order to achieve a homogenous consistency divide the measured quantity of powder into 4 portions (1/2 1/4 1/8 1/8). Beginning with the smallest quantity, stroke the powder into the measured liquid within 90 seconds.

The cavity lining consistency has been reached when on lifting the spatula, the peak drawn out forms a small hook and does not sink back into the paste.

The cementation consistency has been reached when the peak formed on lifting the spatula slowly falls back into the paste.

Discard remaining powder or impure liquid.

Mixing time: 90 seconds

Processing time from end of mixing (at 23°C , 72°F):

3:00 minutes

Setting time from end of mixing:

5:00 – 7:30 minutes

Special information:

- The mixed cement should never be applied directly onto dentine near to pulp or onto exposed pulp.
- Irritations of the pulp may occur following the cementing.
- The cement should be applied to a preferably dry tooth surface.
- Close containers immediately after removing material.
- The cement liquid contains phosphoric acid and is corrosive.
In the event of accidental eye contact, rinse immediately with large quantities of water.
- It is absolutely important not to switch the closing caps from the Test Fluid and the cement liquid.
- Do not use the product after the expiration date.
- Compliant with the following specification: DIN EN ISO 9917. - Material Safety Data Sheet (MSDS) available at www.hoffmann-dental.com



ReOrder:

Hoffmann's Harmonic Shades Set Order-No. 82200

Cement Liquid Order-No. 82300

Test Fluid 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

Package sizes:

Hoffmann's Harmonic Shades Set:
1x100g and 4x30g Cement Powder,
40ml Cement Liquid, 40 ml Test Fluid

Made in Germany

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