VISALYS® CEMCORE –
DUAL-CURING, ADHESIVE CEMENTATION AND CORE BUILD-UP COMPOSITE

STEP BY STEP

KETTENBACHDENTAL
Simply intelligent

1 Cementation of crowns, bridges, inlays, onlays, partial crowns, adhesive bridges, veneers

ACTIVE CONNECT TECHNOLOGY

100% BPA FREE Free of Bisphenol A

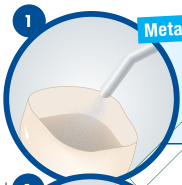
Pretreatment of restoration

In each case, note the information provided by the manufacturer of the restoration material.

Restorations of (noble) metal, oxide ceramic, composite

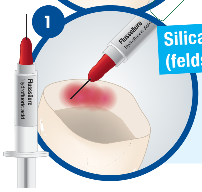
OR

Restorations of silicate ceramic (feldspar and glass ceramic), hybrid ceramic



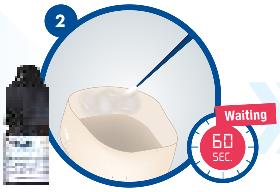
Metal and oxide ceramic

Sandblast with aluminium oxide (≤ 50 µm), rinse and dry.
Do not use phosphoric acid gel!

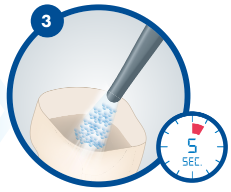


Silicate ceramic (feldspar and glass ceramic)

Apply hydroflouric liquid acid as per the product manufacturer's instructions.



Apply Visalys® Restorative Primer.



Gentle drying of the adhesive surfaces.

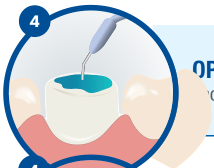
Pretreatment of enamel / dentin

Procedure after cleaning and drying.

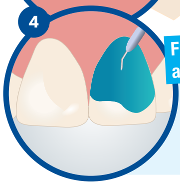
Crowns, bridges, inlays, onlays, partial crowns, dentin, cut enamel

OR

For veneers, adhesive bridges and uncut enamel

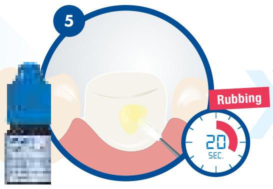


OPTIONAL:
osphoric acid etching

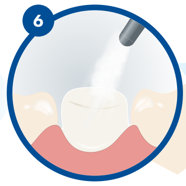


For veneers, adhesive bridges and uncut enamel

NECESSARY:
phosphoric acid etching of enamel.



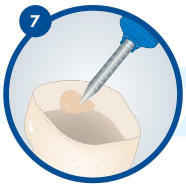
Rub in Visalys® Tooth Primer for 20 sec.



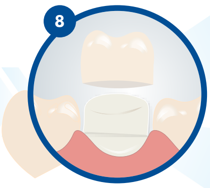
Gentle drying.

Cementation with Visalys® CemCore

Procedure after pretreatment.



Apply Visalys® CemCore.

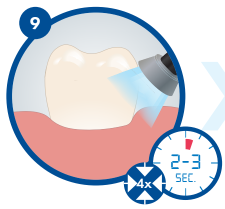


Place the restoration.

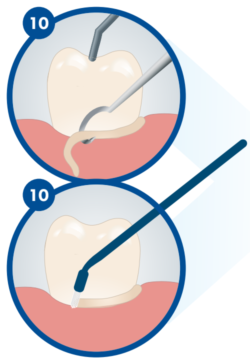
METHOD 1:
Cure with light 2-3 sec. per quarter surface. (Alternatively: self-cure until gel phase: approx. 2-3 min.)

OR

METHOD 2:
Immediately remove excess, for example, by using a brush.

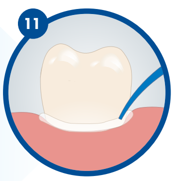


Continue with step 10

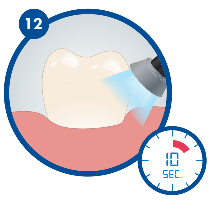


Final curing / Finishing

Procedure after removing excess.

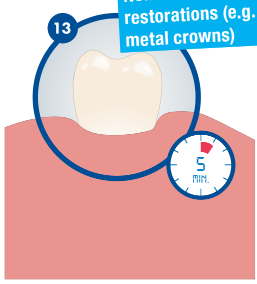


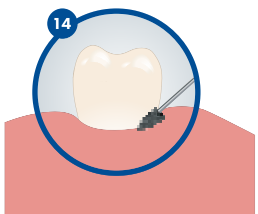
OPTIONAL:
Tip: Covering the cement joint with a polyethylene glycol paste (Visalys® CemCore Try In Paste) or with a glycerin gel to avoid an inhibition layer.



10 sec. light curing per surface/cement joint

Non-translucent restorations (e.g. metal crowns)





Rough cement joints can be finished and polished.

VISALYS® CEMCORE – DUAL-CURING, ADHESIVE CEMENTATION AND CORE BUILD-UP COMPOSITE

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2 Cementation of root posts and indirect core build-ups

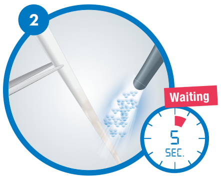
ACTIVE CONNECT TECHNOLOGY

100% BPA FREE Free of Bisphenol A

Pretreatment of the root post

In each case, note the information provided by the manufacturer of the post material.

Apply Visalys® Restorative Primer.

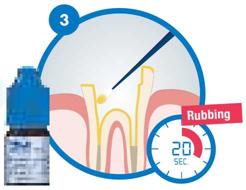


Gentle drying of the adhesive surfaces.

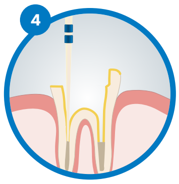
Note: If the manufacturer of the post material recommends pretreatment with a bonding, the Visalys® Restorative Primer can be used for this purpose.

Pretreatment of the tooth structure

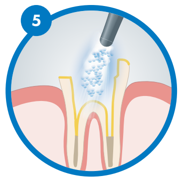
After rinsing and drying.



Rub Visalys® Tooth Primer onto the surface including the coronal parts for 20 sec.



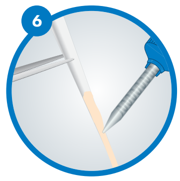
Remove the primer excess with a paper tip.



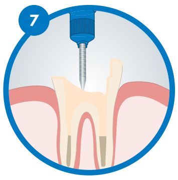
Gentle drying of the adhesive surfaces.

Cementation with Visalys® CemCore

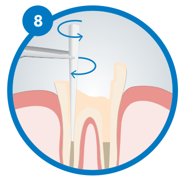
Procedure after pretreatment.



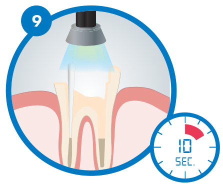
Apply Visalys® CemCore to the post, ...



... into the root canal and the remaining surfaces of the tooth structure. **DO NOT USE LENTULO!**



Insert the post using rotating movements.



Brief light curing to fix the post.

3 Preparing a core build-up

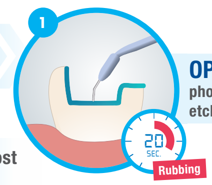
Pretreatment of the tooth structure

Procedure after cleaning and drying.

Without root post

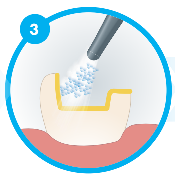
OR

After cementation of root post proceed directly to step 4.



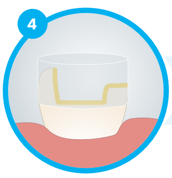
OPTIONAL: **phosphoric acid etching**

Rub Visalys® Tooth Primer onto the surface for 20 sec.

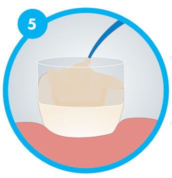


Gentle drying of the adhesive surfaces.

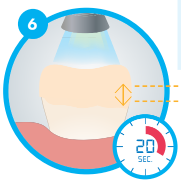
Core build-up



Optional: Apply matrices.



Apply Visalys® CemCore.



Note: Remove matrices or core forms only after final self-curing. 5 MIN.

The depths of cure of the Visalys® CemCore shades are listed in the table on the right.

Light cure for 20 sec. If the layer thickness is above the specified polymerization depths (on the table on the right), wait until the chemical curing process is complete.

Technical Data

Working time (23°C/74°F)	approx. 4 minutes
Working time (intraoral)	approx. 2 minutes
Exposure time for initial curing (tack curing)	2-3 seconds per polymerization point
Time for purely chemical curing including working time (intraoral)	approx. 5 minutes
Light curing* (cementation)	10 seconds per surface / cement joint
Light curing* (core build-up)	20 seconds
Radiopacity**	approx. 2.5 mm Al
Depth of cure Translucent	approx. 2.5 mm
Depth of cure Universal (A2/A3)	approx. 2.0 mm
Depth of cure Bleach, Dark (A4)	approx. 1.5 mm
Depth of cure, Opaque	approx. 0.5 mm
Light intensity	1200 mW/cm²

* in a light wavelength range 400-500 nm

** Aluminum has a radiopacity equivalent to dentin. Therefore, 1 mm of a material that has a radiopacity equivalent to 1 mm of aluminum has a radiopacity equivalent to 1 mm of dentin, and 2 mm of aluminum is equivalent to the tooth enamel.

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