



**HARVARD®**

Version 02.2022

# A world full of Innovative Dental Products.



**The right  
Composite**  
for every requirement.

**Now  
Bulk Flow!**

**Bioactive**  
the new materials.

**Classical:**  
Harvard Cement.  
The Original. Since 1892.



Made in Germany

EN

Harvard  
**MultiChrome**

**NEW!**

**8**

Harvard  
**UltraFill**

**12**

Harvard  
**PremiumFill** <sup>+</sup>

**16**

Up to 4 mm  
in the blink of an  
**EYE!**

**NEW!**

Harvard  
**IonoSphere Bulk Flow** **19**

Harvard  
**BioCal®-Line**

**NEW!** **26**

Resin-Reinforced  
**MTA**  
Protective Liner

Harvard  
**UltraFill**

**ENDO**

**36**

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Harvard  
**SuperSnap®**

Harvard  
**BioCal®-RootSeal**

**NEW!**

**46**

Harvard  
**LiquiCord®**

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Harvard  
**Cement.**  
The Original. Since 1892.

**60**

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**1892**  
seit  
 **HARVARD®**

# “Find your Harvard Smile.”

Innovative Dental Products. Made in Germany.

## New at Harvard

- Harvard MultiChrome
- Harvard IonoSphere Bulk Flow
- Harvard BioCal<sup>®</sup>-Line
- Harvard BioCal<sup>®</sup>-RootSeal
- Harvard MTA-RootSeal
- Harvard BioCal<sup>®</sup>-Cem

*Much more  
than you  
expect.*



# Preferred composition in your hands.

MultiChrome  
Shade Adaptive



UltraFill  
Multi Opacity



UltraFill  
Universal Opacity



Harvard is **Much more than you expect**. This guiding principle applies to our entire range. The tradition of high quality originated in 1892 and continues into the present and the future. The production „**Made in Germany**“ guarantees the high quality standards.

# The right composite for every requirement.

## **Harvard MultiChrome – the shade-adaptive composite for almost all tooth shades.**

The innovative high-tech composite Harvard MultiChrome absorbs the colour spectrum of the tooth to be treated and matches it to the existing tooth shade substance thanks to its special Hyper-Nano technology. The secret is the composition, shape and distribution of the fillers in the material.

The pleasant consistency, the excellent polishability and permanent high gloss complement the excellent physical properties of Harvard MultiChrome.

## **Harvard UltraFill – for esthetic restorations.**

Harvard UltraFill offers excellent and permanent high gloss polishability and a tooth-like fluorescence with chameleon effect. The low polymerisation shrinkage and the high abrasion resistance ensure long durability. Suitable for anterior and posterior restorations. It offers a wide range of multi- and universal shades. Also available as a flowable material and in OptiTips®.

## **Harvard PremiumFill<sup>+</sup> – for durable restorations.**

Harvard PremiumFill<sup>+</sup> is a nano-hybrid composite with optimal physical properties and very high abrasion resistance. It offers a non-sticky consistency and good sculptability. For posterior and anterior restorations. Also available as a flowable material and in OptiTips®.

## **Harvard Restore – for economical restorations.**

Harvard Restore is a universal, light-curing microhybrid composite. It is suitable for anterior and posterior fillings. It offers low abrasion and is easy to polish. Good and non-sticky consistency. Easy to use. Also available as a flowable version.

**Find your Harvard Smile!**



# Harvard MultiChrome

## It's magic.

**NEW!**

**Shade-adaptive  
composite for almost all  
tooth shades.**

- Hyper-Nano technology, spherical fillers
- Without any color pigments
- Light-optical chameleon effect for perfect match with natural tooth substance
- Simple storage logistics



**The Next**



# Restoration

## Composite for Fillings

- Multi-Shade Restorative – shade-adaptive composite
- plus composite for blocking and masking

### Harvard MultiChrome Multi-Shade Restorative




- For users who only want to use one single composite
- Shade-adaptive composite for almost all tooth shades
- Invisible transition between enamel, dentin and composite, creating margins that simply disappear
- Hyper-Nano technology, spherical fillers
- Without any color pigments
- Light-optical chameleon effect
- Superior handling properties
- Low shrinkage
- Permanent high gloss after polishing
- High abrasion resistance
- Excellent physical properties
- Radiopaque
- Opalescence
- Simple storage logistics


### Harvard Block 'n Mask

Composite for blocking and masking

- Corrects shade matching in difficult situations and for strong discolourations. (e.g. when the dark oral cavity shines through, covering discolourations)



Harvard MultiChrome	
3 g syringe	7100001
Harvard MultiChrome	
20 x 0.25 g OptiTips®	7100002
Harvard Block 'n Mask	
3 g syringe	7100005
Harvard Applier OptiTips®	7095200

Kit	
Harvard MultiChrome Kit	
3 syringes ea. 3 g Harvard MultiChrome, 1 syringe 3 g Harvard Block 'n Mask	7100009

Optimal shade-adaptation for almost all tooth shades after light polymerization.

before



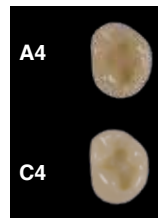
Posterior preparation A3

after



Posterior restoration with Harvard MultiChrome

before

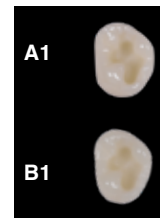


A4  
C4

after



before



A1  
B1

after



Teeth of different shades restored with Harvard MultiChrome

**Generation Composite.**

# Harvard MultiChrome Flow

Perfect for  
small enamel  
restorations.

**NEW!**

- Hyper-Nano technology, spherical fillers
- Shade-adaptive composite for almost all tooth shades
- Without any color pigments
- Light-optical chameleon effect
- Simple storage logistics



**The flowable**

# Restoration

## Composite for Fillings

- Multi-Shade Restorative – shade-adaptive flowable composite
- plus flowable composite for blocking and masking

Harvard

## MultiChrome Flow

### Multi-Shade Flowable Restorative

- For users who want one single flowable composite for many shades
- Shade-adaptive composite for almost all tooth shades
- Invisible transition between enamel, dentin and composite, creating margins that simply disappear
- Extended posterior fissure sealing
- Hyper-Nano technology, spherical fillers
- Without any color pigments
- Light-optical chameleon effect
- Excellent handling
- Optimal flow consistency, thixotropic
- Low shrinkage
- Permanent high gloss after polishing
- High abrasion resistance
- Excellent physical properties
- Radiopaque
- Opalescence
- Simple storage logistics



### Harvard Block 'n Mask Flow

Flowable composite for blocking and masking

- Corrects shade matching in difficult situations and for strong discolourations. (e.g. when the dark oral cavity shines through, covering discolourations)



Harvard MultiChrome Flow	
2 x 1 ml syringe, incl. 8 needle tips H18	7100003
Harvard Block 'n Mask Flow	
2 x 1 ml syringe, incl. 8 needle tips H18	7100006
Harvard NeedleTips H18	7095158
refill bag with 50 needle tips	

with chameleon effect.

Optimal shade-adaptation for small enamel restorations.



before



after



Extended posterior fissure

Restoration with Harvard MultiChrome Flow

# Restoration

## Composite for Fillings

- Multi Opacity layering technique
- Multiple shades in **various** opacities



Full Art! For highly esthetic restorations:

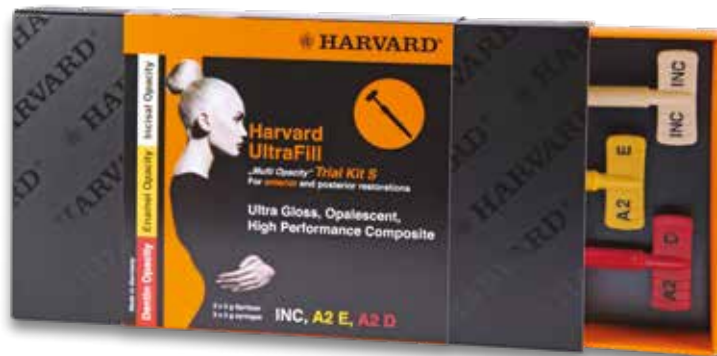
### Harvard UltraFill

#### Multi Opacity

Ultra Gloss, Opalescent, High Performance Composite for **anterior** and **posterior** restorations



- Permanent high gloss
- Excellent permanent esthetics
- Opalescence
- Tooth-like fluorescence
- Easy to work with
- Superior handling properties
- Low polymerization shrinkage
- High abrasion resistance
- Optimal physical properties
- Chameleon effect
- Radiopaque

D Dentin      E Enamel      T/INC Transpa/Incisal



TrialKit S – 3 x 3 g

#### Multi Opacity layering technique

Harvard UltraFill „Multi Opacity”		
Shade	3 g Syringe	20 x 0.25 g OptiTips®
A1 E	7131111	
A1 D	7121111	
A2 E	7131112	7131212
A2 D	7121112	7121212
A3 E	7131113	7131213
A3 D	7121113	7121213
A3.5 E	7131114	
A3.5 D	7121114	
BL E	7131153	
BL D	7121152	
INC	7141160	
T	7141170	

Harvard Applier OptiTips®	7095200
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Kits	
Harvard UltraFill „Multi Opacity” Trial Kit S 3 syringes ea. 3 g, INC, A2 E, A2 D	7176104

Further shades are possible. Please contact us.

# Restoration

## Composite for Fillings

- **Universal Opacity**
- Selected shades in **one** opacity



U  
Universal

### Harvard UltraFill

#### Universal Opacity



Ultra Gloss, Opalescent, High Performance Composite for **anterior** and **posterior** restorations

- **Permanent high gloss**
- In 80 % of clinical cases best compromise of opacity
- Opalescence
- Tooth-like fluorescence
- Easy to work with
- Superior handling properties
- Low polymerization shrinkage
- Optimal physical properties
- Radiopaque



IntroKit S – 3 x 3 g

#### Universal Opacity easy technique

Harvard UltraFill „Universal Opacity”		
Shade	3 g Syringe	20 x 0.25 g OptiTips®
A1 U	7111111	7111211
A2 U	7111112	7111212
A3 U	7111113	7111213
A3.5 U	7111114	7111214
BL U	7111151	
Harvard Applier OptiTips®		7095200

Kits	
Harvard UltraFill „Universal Opacity” IntroKit S	7175100
3 syringes ea. 3 g, A2 U, A3 U, A3.5 U	

Further shades are possible. Please contact us.

## Multi Opacity

Perfect esthetic results with the Harvard UltraFill Multi Opacity layering technique.



Closing a diastema,  
Andreas Kluschke MSc, Dentist

before



after 6 month



“ Class IV incisor restoration 11:  
For this demanding case I decided to use Harvard UltraFill. ”



1. Initial situation with incisor tooth fracture.
2. Removal of the old composite, Silicone impression.
3. A palatal shell was cast on as a basis for the restoration.
4. Mamelons were prepared with dentin composite (90% opacity – Harvard UltraFill A1 D).
5. Final layer was applied to the mamelons with enamel opacity (80% opacity – Harvard UltraFill A1 E) and an incisal edge of Harvard UltraFill INC.
6. After the 3D anatomical correction.



Dr. Pawel Paszkiewicz,  
Estetique Clinic,  
Polanica Stroj, Poland

## Universal Opacity

Great high-gloss result with Harvard UltraFill Universal Opacity.



Class V Restoration,  
MSc. Andreas Kluschke, Dentist,  
Hamburg

before



after 6 month



Perfect marginal seal with Harvard UltraFill Universal Opacity.



Class I Restoration,  
Dr. Pawel Paszkiewicz, Dentist

before



after



# Restoration



## Composite for Fillings

### Harvard UltraFill Flow

Ultra Gloss, Opalescent, Flowable Composite  
for **anterior** and **posterior** restorations

- Easy polishability, **permanent high gloss**
  - Opalescence
  - Optimal flow consistency
  - Thixotropic
  - Tooth-like fluorescence
  - Reduced polymerization shrinkage
  - High abrasion resistance
  - Optimal physical properties
  - Easy to work with
  - Radiopaque
- Available in ComforTip®F



Harvard UltraFill Flow		
Shade	2 x 1 ml Syringe	20 x 0.25 g ComforTip® F
A1	7112111	7112211
A2	7112112	7112212
A3	7112113	7112213
A3.5	7112114	
B1	7112121	
BL	7112151	
	incl. 8 needle tips H18	

Harvard NeedleTips H18 refill bag with 50 needle tips	7095158
Harvard Applier OptiTips®	7095200




Further shades are possible. Please contact us.

### Easy and quick to polish, durable high gloss.



Tooth 14 and 15  
Wedge-shaped defects

MSc. Andreas Kluschke,  
Dentist, Hamburg

before  after



Class V restorations after  
high gloss polish

# Restoration

## Composite for Fillings

- Dual Opacity layering technique
- Selected shades in **two** opacities



**D**  
Dentin

**E**  
Enamel

### Harvard PremiumFill<sup>+</sup>

#### Dual Opacity



Nano-Optimized Hybrid Composite  
for **posterior** and anterior restorations

- Excellent esthetics
- Superior handling properties
- Non-sticky consistency and highly sculptable
- Low polymerization shrinkage
- Tooth-like fluorescence
- Excellent high gloss polishability
- High abrasion resistance
- Optimal physical properties
- Nano-filler technology



OptiTips® 0.3 g

#### Dual Opacity layering technique

Harvard PremiumFill <sup>+</sup> „Dual Opacity“		
Shade	4 g Syringe	20 x 0.3 g OptiTips®
A1 E	7082310	7082410
A2 E	7082311	7082411
A2 D	7082320	7082420
A3 E	7082312	7082412
A3.5 E	7082313	7082413
A3.5 D	7082321	7082421
Harvard Applier OptiTips®		7095200

Excellent  
High gloss filling with  
Harvard PremiumFill<sup>+</sup>



Further shades are possible. Please contact us.



# Restoration

## Composite for Fillings

- Universal Opacity
- Selected shades in **one** opacity



U  
Universal

Harvard

## PremiumFill<sup>+</sup>

### Universal Opacity

Nano-Optimized Hybrid Composite  
for **posterior** and anterior restorations

- Excellent esthetics
- Superior handling properties
- Non-sticky consistency and highly sculptable
- Low polymerization shrinkage
- Tooth-like fluorescence
- Excellent high gloss polishability
- High abrasion resistance
- Optimal physical properties
- Nano-filler technology



IntroKit S | 3 x 4 g



OptiTips® 0.3 g





Harvard Applier OptiTips®



4 g

### Universal Opacity easy technique

Harvard PremiumFill <sup>+</sup> „Universal Opacity“		
Shade	4 g Syringe	20 x 0.3 g OptiTips®
A1 U	7082300	7082400
A2 U	7082301	7082401
A3 U	7082302	7082402
A3.5 U	7082303	7082403
B1 U	7082304	
B2 U	7082305	
Harvard Applier OptiTips®		7095200

Kits	
Harvard PremiumFill <sup>+</sup> „Universal Opacity“ IntroKit S 3 syringes ea. 4 g, A2 U, A3 U, A3.5 U	7082500

Further shades are possible. Please contact us.

# Restoration

## Composite for Fillings

Harvard

### PremiumFlow<sup>+</sup>



Nano-Optimized Hybrid Flowable Composite for **posterior** and anterior restorations

- Optimal flowable consistency
- Thixotropic
- Excellent high gloss polishability
- Beautiful esthetic restorations
- Low polymerization shrinkage
- Low abrasion
- Improved mechanical properties



2 x 1 ml

20 x 0.25 g OptiTips®

PremiumFlow <sup>+</sup>		
Shade	2 x 1 ml Syringe	20 x 0.25 g OptiTips® F
A1	7082600	
A2	7082601	7082701
A3	7082602	7082702
A3.5	7082603	
	incl. 8 needle tips H18	

Harvard NeedleTips H18	7095158
refill bag with 50 needle tips	
Harvard Applier OptiTips®	7095200

Further shades are possible. Please contact us.

### Application of Harvard PremiumFlow<sup>+</sup>



Defective filling



After removal etching and bonding



Application of Harvard PremiumFlow<sup>+</sup>



Polished filling

### Before and after restoration



before



after



Perfect flow properties for the construction of sophisticated anatomical shapes (e.g. incisal and cervical restorations).

MSc. Andreas Kluschke, Dentist, Hamburg

# Restoration

## Composite for Fillings

### Harvard IonoSphere Bulk Flow **NEW!**

Harvard IonoSphere Bulk Flow is a flowable composite with bioceramic fillers for a fast bulk dentine filling without the need for complex layering techniques.

The layer thickness of up to 4 mm enables efficient bulk filling. The flowable material is self-leveling at the surface and thus easy and quick to apply, with excellent adaptation on the cavity walls. The final layer can be carried out with the desired shade of a moldable composite. Harvard IonoSphere Bulk Flow exhibits a very low shrinkage and very low shrinkage stress, is ion-active and acid-inhibiting.

- Bulk dentine filling up to 4 mm layer thickness
- Good flow properties
- Very low shrinkage
- Very low shrinkage stress
- Acid-inhibiting
- Ion-active
- Fluoride releasing
- Radiopaque



Harvard IonoSphere Bulk Flow		
Shade	2 x 1 g Syringe	20 x 0.25 g OptiNeedleTips
Universal	7100011	7100012
	incl. 8 needle tips H18	

Harvard NeedleTips H18	7095158
refill bag with 50 needle tips	
Harvard Applier OptiTips®	7095200



4 mm

## Up to 4 mm in the blink of an EYE!

And this with very low shrinkage and very low shrinkage stress.

### Self-leveling. Also ion-active.

# Restoration


## Composite for Fillings

### Harvard Restore

Universal light cure microhybrid composite

- Suitable for anterior and posterior restorations
- Nice non-sticky consistency
- Low abrasion
- Good polishability
- Tooth-like fluorescence
- Good price / performance ratio




Harvard Restore	
Shade	4 g Syringe
A1	7083201
A2	7083202
A3	7083203
A3.5	7083204
B1	7083221
B2	7083222

Kits	
<b>System Kit</b>	7083207
4 syringes ea. 4 g, A1, A2, A3, A3.5 3 ml syringe <b>Harvard Etch</b> , 5 ml bottle Harvard Bond TE Mono 5 Appli-Pads, 50 Microbrush®, 5 needle tips	
<b>System Kit Plus</b>	7083217
4 syringes ea. 4 g, A1, A2, A3, A3.5 3 ml syringe <b>Harvard RestoreFlow</b> in the shade A2 5 ml bottle Harvard Self-Bond, 5 Appli-Pads, 50 Microbrush®, 5 needle tips	

### Harvard RestoreFlow

Universal flowable light cure microhybrid composite

- Suitable for anterior and small posterior restorations and for lining of cavities
- Controlled flow
- Good mechanical properties
- Tooth-like fluorescence
- Good price / performance ratio

Harvard RestoreFlow	
Shade	3 ml Syringe
A1	7083211
A2	7083212
A3	7083213
A3.5	7083214
	incl. 3 needle tips H20
<b>Harvard NeedleTips H20</b> refill bag with 50 needle tips	7091226



Further shades are possible. Please contact us.

# Restoration

■ Light cure adhesives at a glance

Not all **adhesives** are equal.



**Strong connections:  
Easy to BOND!**

# Restoration

## Light Cure Adhesives


### Harvard InterLock® ONE

#### Universal Adhesive

- **Universal:** suitable for all tooth conditioning techniques: with or without etching gel, wet or dry
- Only one thin layer necessary
- High and reproducible bond strength to enamel and dentin even under long term stress
- Effective marginal seal for low risk of postoperative sensitivity
- Excellent performance also with self or dual cure composites
- Convenient and precise application with the triangle ergonomic bottle with defined drop size

If light curing of **Harvard InterLock® ONE** cannot be achieved, please use **Harvard Bond SE Dual**.

<b>Harvard InterLock® ONE</b>	
Universal Adhesive 5 ml bottle	7083611
<b>Microbrush®</b>	7095156
refill bag with 50 applicators	

<b>Harvard InterLock® ONE SingleDose</b>	
Universal Adhesive 50 x 0.1 ml SingleDose	7083613*

\* No stock item, please contact the Harvard sales team.



5 ml



50 x 0.1 ml



Good to know ...


Comfortable and precise application due to the ergonomic triangular bottle with defined drop size.

### Harvard InterLock® ONE Self Cure Activator

for InterLock® ONE

- Activator for safe adhesion in indications, where light curing of **Harvard InterLock® ONE** cannot be ensured (e.g. in the root canal)
- Ideal for cementing of posts with dual and self cure composites



<b>Harvard InterLock® ONE Self cure Activator</b>	
Universal Adhesive 5 ml bottle	7083612

# Restoration

## Light Cure Adhesives

### Harvard InterLock®

Very strong, self-etch, light cure bonding within two steps

- Long-term and safe adhesion to enamel and dentin
- High and even bond strength
- Extremely reliable
- Easy and fast application
- Excellent seal
- Not technique and moisture sensitive
- Hydrophilic for wet bonding technique
- For perfect margins to protect against secondary caries

#### The gold standard

<b>Harvard InterLock®</b>	
2 x 5 ml bottle, 50 Microbrush®, 5 Appli-Pads	7083603
<b>Microbrush®</b>	7095156
refill bag with 50 applicators	



### Harvard Bond SE Mono

Self-etch, light cure bonding; etching, priming and bonding in one step

- Strong and long-lasting adhesion to enamel and dentin
- Only one layer necessary
- Hydrophilic for wet bonding technique
- Good price / performance ratio

<b>Harvard Bond SE Mono</b>	
5 ml bottle	7083601
<b>Microbrush®</b>	7095156
refill bag with 50 applicators	



# Restoration

## Light Cure Adhesives


### Harvard Self-Bond

Self-etch, light cure bonding

- For bonding of composites on dentin and enamel
- No extra etching necessary
- Only one layer necessary
- Easy application
- Hydrophilic for wet bonding technique
- Good price / performance ratio



5 ml

Harvard Self-Bond	
5 ml bottle	7083218


### Harvard Bond TE Mono

Light cure one bottle adhesive for total-etch technique

- Strong bonding to enamel and dentin
- Strong bonding of light cure composites, non-precious and precious metals
- Hydrophilic for wet bonding technique
- 2 bonding layers necessary; very strong adhesion
- Good price / performance ratio



5 ml

Harvard Bond TE Mono	
5 ml bottle	7083607

### Harvard Etch

Thixotropic etching gel for etching of enamel and dentin

- Selective enamel etching or total-etch technique for:
  - Composite restorations
  - Sealing of fissures
  - Adhesive cementation of inlays, onlays, crowns and bridges
- Optimal consistency: stays where placed
- Thixotropic, controlled etching
- Good price / performance ratio



2 ml

Harvard Etch	
2 ml syringe, 3 needle tips	7054000
Harvard NeedleTips H25	7095126
refill bag with 50 needle tips	



# Restoration

## Liner at a glance

Not all **Liners** are equal.

Effective liners are used in dentistry to protect the pulp. On the one hand, there are **bioactive liners** that are resin-reinforced which combine MTA components and release calcium and hydroxyl ions. This enables effective protection of the pulp through an increased pH value and mineralization at the same time. Light cure allows further filling with composite to take place immediately.

On the other hand, there are also **classic liners** such as calcium hydroxide liners (hydroxyl release) and ionomer liners (fluoride release) which are also light cure.

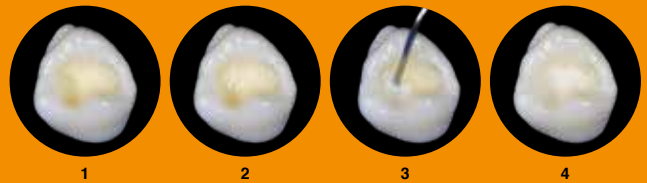
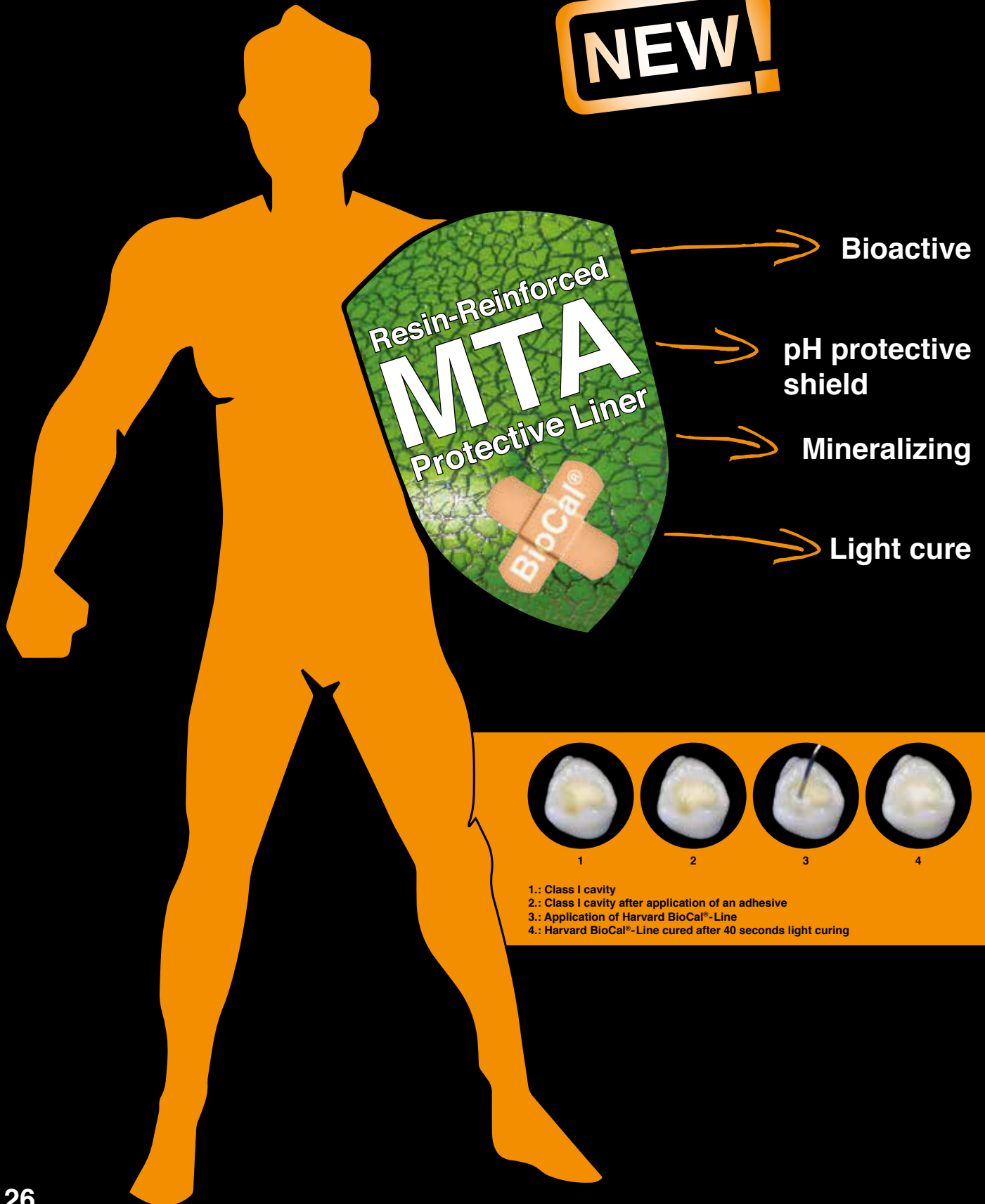
In comparison to classic liners, bioactive liners can form apatite more easily.



# Harvard BioCal<sup>®</sup>-Line

Bioactive resin-reinforced **MTA protective liner**

**NEW!**



- 1.: Class I cavity
- 2.: Class I cavity after application of an adhesive
- 3.: Application of Harvard BioCal<sup>®</sup>-Line
- 4.: Harvard BioCal<sup>®</sup>-Line cured after 40 seconds light curing

# Restoration

## Liner

### The Bioactive

Harvard

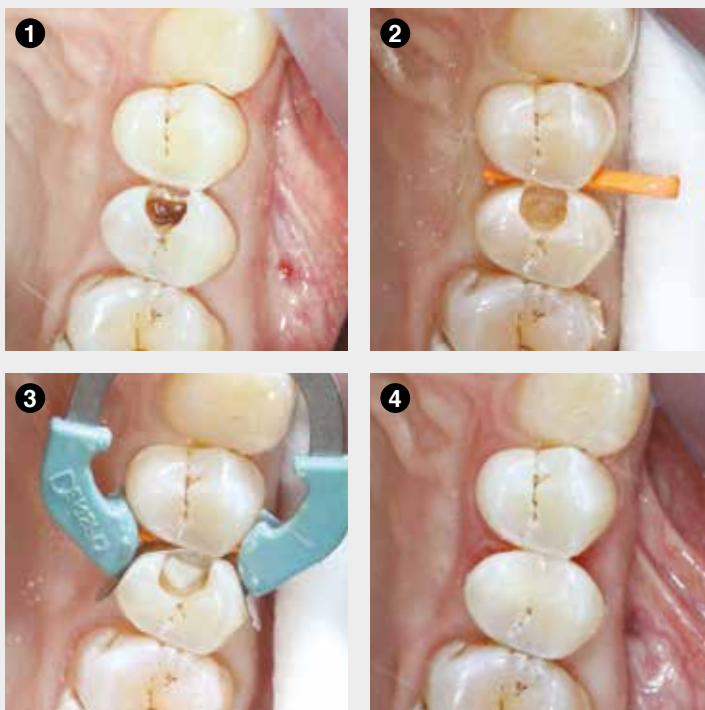
## BioCal® - Line NEW!

Harvard BioCal® – Line is a **bioactive**, light cure, resin-reinforced **MTA protective liner**.

The good strength and the protective effect of the MTA components (high alkalinity and mineralization) ensure pulp protection with sufficient stability for subsequent filling at the same time.

- Perfect as a thin-layer, protective liner in deeper cavities
- Also suitable for indirect and direct pulp capping
- Environment hostile to bacteria (pH 11)
- Mechanically stable
- Short setting times due to light cure
- Mineralizing
- Compatible with all composite restorative materials
- Radiopaque

<b>Harvard BioCal® - Line</b>	
1 g syringe, 12 needle tips	7081554
<b>Harvard NeedleTips H20</b>	
refill bag with 50 needle tips	7091226



“ Maximum pulp protection with light-curing bioactive MTA liner in deep caries lesions. ”

- 1.: Premolar after initial preparation
- 2.: Full caries excavation
- 3.: Cavity lining with **Harvard BioCal®-Line** after application of adhesive system
- 4.: Composite restoration with **Harvard UltraFill**



MSc. Andreas Kluscke  
Hamburg Smile, Hamburg

# Restoration

## Liner

### Classical


## Harvard CalciumHydroxide LC

Calcium hydroxide liner, light cure, resin-based  
with calcium release, pH 11

- Suitable for indirect pulp capping and as a liner for filling procedure
- High pH level with antimicrobial effect
- Optimal flow
- Radiopaque
- Good price / performance ratio



2 ml

Harvard CalciumHydroxide LC	
2 ml syringe, 3 needle tips	7071263
Harvard NeedleTips H18	7095158
refill bag with 50 needle tips	

## Harvard IonoLine

Glass ionomer liner, light cure, resin-modified  
with fluoride release

- Suitable as liner or base
- Fluoride release
- Perfectly flowing
- Radiopaque
- Good price / performance ratio



2 ml

Harvard IonoLine	
2 ml syringe, 3 needle tips	7071260
Harvard NeedleTips H20	7091226
refill bag with 50 needle tips	

# Restoration

## ■ Glass ionomer cements for filling at a glance

### Resin-reinforced **VS.** Classical

Fast, easy and convenient are the unbeatable arguments for our **resin-reinforced** glass ionomer restorative cements.

These highly esthetic cements offer good polishability and very good marginal seal. The fluoride release and moisture tolerance coupled with a very good bonding to composites enables safe processing with time savings due to light curing.

The **classic** glass ionomer cements do not contain any methacrylates and are ideal for sensitive patients or deciduous tooth treatment. The strong fluoride release supports this treatment.



# Restoration

## ■ Glass Ionomer Cements for Fillings


### Resin-reinforced


#### Harvard IonoResin Fill Extra (LC)

Resin-reinforced glass ionomer cement for fillings, light cure

- Esthetic natural transparency
- Fine fillers
- Light- and self cure
- Good polishability
- Very good mechanical properties, practically no shrinkage
- Practically insoluble
- Fluoride release
- Radiopaque
- HandMix or OptiCaps®

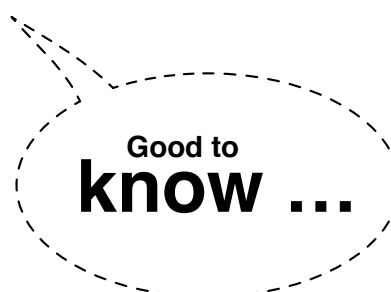


Harvard IonoResin Fill Extra (LC)	
15 g powder / 8 ml liquid, dosage spoon, mixing pad	
A2	7071118
A3	7071119
A3.5	7071120*

Harvard IonoResin Fill Extra (LC)	
50 OptiCaps® ea. 0.5 g	
A2	7071253
A3	7071254*
A3.5	7071255*

\* No stock item, please contact the Harvard sales team.

Harvard Applier OptiCaps®	7092000
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# Restoration

## Glass Ionomer Cements for Fillings

### Classical

Harvard


## IonoGlas Fill Extra

Esthetic classical glass ionomer cement for fillings, self cure

- Esthetics and natural translucency
- Convenient to apply and easy to handle
- Easy finishing
- Low solubility
- High fluoride release
- Radiopaque
- HandMix or OptiCaps®



<b>Harvard IonoGlas Fill Extra</b>	
15 g powder / 8 ml liquid, dosage spoon, mixing pad	
A2	7052112
A3	7052113

<b>Harvard IonoGlas Fill Extra</b>	
50 OptiCaps® ea. 0.5 g	
A2	7052252
A3	7052253
<b>Harvard Applier OptiCaps®</b>	7092000

Harvard

## IonoGlas Fill

Classical glass ionomer cement for fillings

- Good molding
- Good marginal fit and seal
- Easy to mix and to use
- HandMix
- Good price / performance ratio



<b>Harvard IonoGlas Fill</b>	
dosage spoon, mixing pad	
10 g powder – A2 / 5.6 ml liquid	7051110*
15 g powder – A2 / 8 ml liquid	7051115
15 g powder – A3 / 8 ml liquid	7051116*
35 g powder – A2 / 20 ml liquid	7051120*

\* No stock item, please contact the Harvard sales team.

# For every indication the right material.



## Core build-up at a glance

### **Harvard ZirconCore – for two indications**

ZirconCore is a dual cure core build-up and post luting composite.

The material offers very good mechanical properties for durable restorations.

Fluoride release and thixotropic properties distinguish this product.

Contains a substantial amount of nano zirconia. ZirconCore cuts like dentin.

### **Harvard Core – Good price/performance ratio**

Dual cure flowable composite with good thixotropy for core build-up and root canal post cementation. The advantage of this economical material is its thixotropy – it remains where it was applied and flows where it has received a contact impulse, e.g. in root canal post cementation.

Our adhesive system Harvard Bond SE Dual is ideally matched to Harvard ZirconCore and Harvard Core.

Find your Harvard Smile!



Harvard  
**ZirconCore**

Harvard  
**Core**

Harvard  
**Bond SE Dual**

# Restoration

## Core Build-up and Post Cementing


### Harvard Core

Dual cure composite for core build-up and post cementation

- Versatile – two indications: Core build-up and post cementation
- Reliable & practical
- Dual cure
- Universal shade A3
- Good price / performance ratio



5 ml

<b>Harvard Core</b>	
5 ml minimix syringe – A3, 5 mixing tips, 5 intra tips long	7083593



<b>Harvard Mini 1:1 O-Brown</b> refill bag with 50 mixing tips	7083610
<b>Harvard IntraTips long</b> refill bag with 50 mixing tips	7083620

## Suitable dual-curing adhesive

### Harvard Bond SE Dual

Dual cure self-etch bonding

- Etching, priming and bonding after mixing in one step
- Only one layer necessary
- Strong and long-lasting adhesion to enamel and dentin
- Hydrophilic for wet bonding technique
- For use with dual cure composites e.g. **Harvard ZirconCore**
- Good price / performance ratio

<b>Harvard Bond SE Dual</b>	
2 x 5 ml bottle, 50 Microbrush®, 5 mixing wells	7083602
<b>Harvard Bond SE Dual Refill</b>	
2 x 5 ml bottle	7083605
<b>Microbrush®</b> refill bag with 50 applicators	7095156



2 x 5 ml

2 x 5 ml

# Restoration

## Core Build-up and Post Cementing

### Harvard ZirconCore

Dual cure core build-up and post cementation composite

- Optimal consistency for two indications:  
Core build-up and post cementing
- "Cuts like dentin"
- Very good mechanical properties for durable restorations
- Contains substantial amount of nano zirconia particles
- Fluoride release
- Very good radiopacity
- Thixotropic properties
- **For optimal results:**  
To be used with **Harvard Bond SE Dual**



<b>Harvard ZirconCore – A2</b>	
5 ml minimix syringe – A2, 10 mixing tips, 10 intra tips long	7083599
<b>Harvard ZirconCore – A3</b>	
5 ml minimix syringe – A3, 10 mixing tips, 10 intra tips long	7083600

<b>Harvard Mini 1:1 O-Brown</b>	7083610
refill bag with 50 mixing tips	
<b>Harvard IntraTips long</b>	7083620
refill bag with 50 mixing tips	

“ Due to the dual indication – post-cementation and core build-up – the work becomes easier, faster and more efficient. ”



Prepared and bonded root canal



Application into the root canal



Placing the root post



Cured core build-up



Finished core build-up



Dr. Pawel Paszkiewicz,  
Estetique Clinic,  
Polanica Stroj, Poland

# Endodontics

## Overview of all applications



## Discover ...

... all Harvard products for the endodontic treatment.

Our reliable and easy-to-use materials will help you to provide a patient-oriented and successful treatment and thus ensure long-lasting success. Harvard has the perfectly matched product for every indication.

- **CAP** – for direct and indirect pulp capping. Bioactive, light cure with resin-reinforced MTA cement or self cure with flowable MTA cement, in syringe or capsule. (**Harvard BioCal®-CAP; Harvard MTA-CAP**)
- **PT** – bioactive materials with MTA fillers for the substitution of removed/partially removed pulp. (**Harvard MTA-PT**)
- **Repair** – an MTA cement in the capsule; designed for the closure of root perforations. (**Harvard MTA-Repair**)
- **Ortho** – for direct and simple closure of the apex with a particularly thin-bodied and long-setting MTA cement in the capsule. The enclosed EndoDirect syringe has a very flexible application cannula, so that even in the case of strongly curved root canals can be applied at full working length. (**Harvard MTA-Ortho**)
- **Retro** – MTA materials for retrograde root canal filling. (**Harvard MTA-Retro**)
- **Root Seal** – for definitive root canal sealing in combination with a master point in the automix syringe or in the capsule. (**Harvard BioCal®-RootSeal; Harvard MTA-RootSeal**)

The Harvard **MTA Universal** cements for mixing or in the capsule are suitable for all endodontic indications.

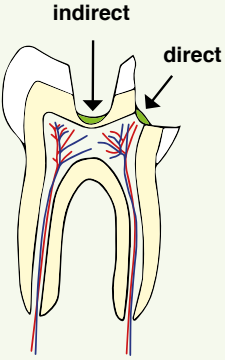
**All Harvard MTA cements and BioCal® materials are also very well suited for the treatment of children.**

# Endodontics

## Overview of all applications

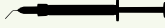
### CAP

Pulp capping




indirect  
direct

Harvard  
**BioCal® - CAP**



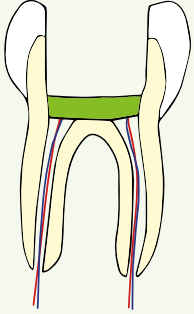
or

Harvard  
**MTA-CAP**  
(MTA XR Flow Fast)




### PT

Pulpotomy

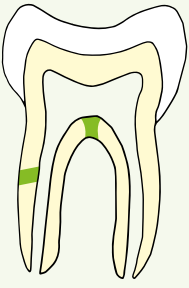


Harvard  
**MTA-PT**  
(MTA XR Flow Fast)




### REPAIR

For filling of root perforations

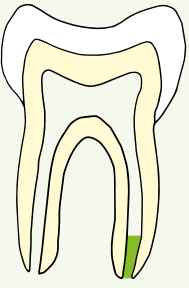


Harvard  
**MTA-Repair**  
(MTA XR)

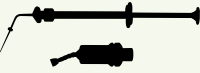


### ORTHO

Orthograde root canal closure



Harvard  
**MTA-Ortho**  
(MTA XR Flow EWT)




### RETRO

Retrograde root canal closure

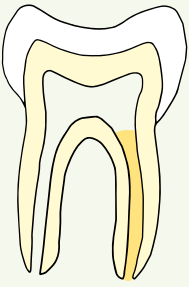


Harvard  
**MTA-Retro**  
(MTA XR Fast)

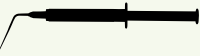


### ROOT TEMP

Temporary root canal filling

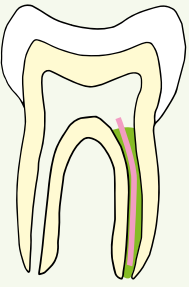


Harvard  
**RootTemp**




### ROOT SEAL

Root canal sealer




Harvard  
**BioCal® - RootSeal**

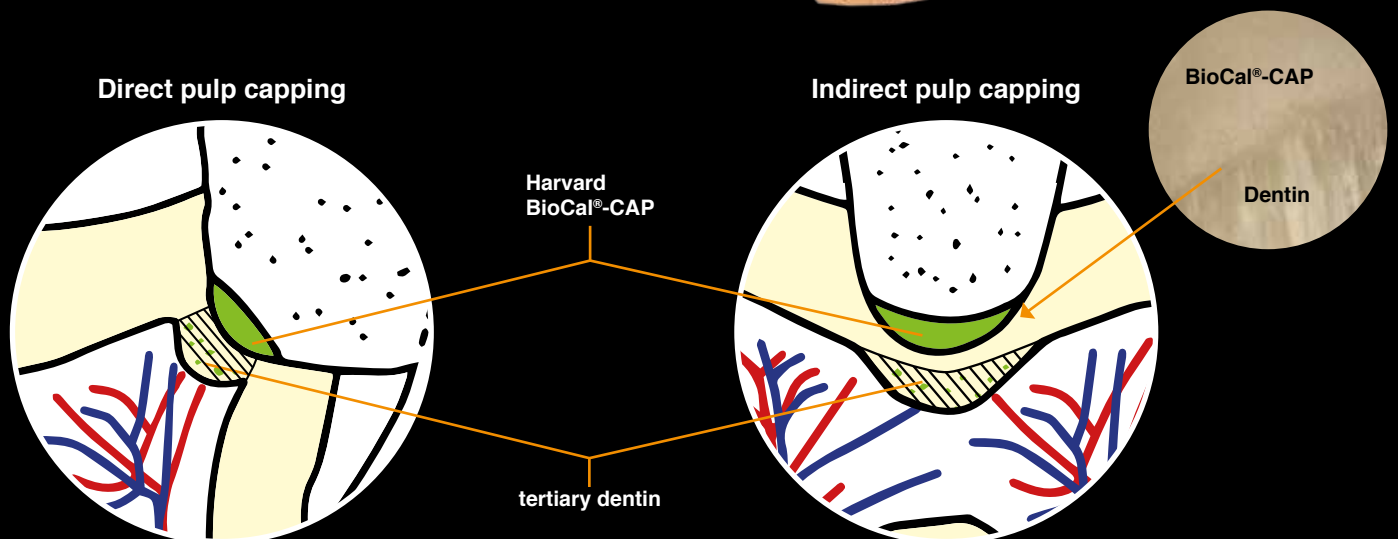


or

Harvard  
**MTA-RootSeal**



# The plaster for the pulp.



Significant release of bioactive calcium promotes the formation of hydroxyapatite and tertiary dentin.

# Endodontics

## CAP – Pulp Protection

### Harvard BioCal® - CAP

Bioactive, light cure, resin-modified MTA cement for direct and indirect pulp capping

- For direct and indirect pulp capping in the treatment of deciduous and adult teeth
- Calcium release and a high pH value (pH 11) promote the formation of hydroxyapatite as well as tertiary dentin
- Creates an environment hostile to bacteria
- Moisture tolerant
- Virtually no solubility
- Good Radiopacity
- Fast, after light cure, treatment can be continued immediately
- Thixotropic properties



1 g

<b>Harvard BioCal® - CAP</b>	
1 g syringe, 12 needle tips	7081550
4 x 1 g syringe, 50 needle tips	7081551*
<b>Harvard NeedleTips H22</b>	7095162
refill bag with 50 needle tips	

\* No stock item, please contact the Harvard sales team.

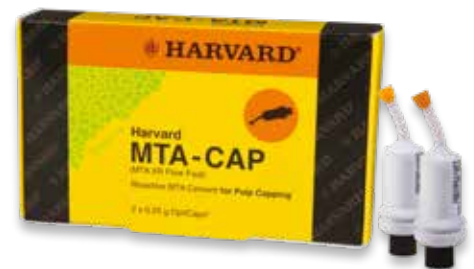
### Harvard MTA-CAP

(MTA XR Flow Fast)


Flowable fast setting MTA cement in capsules

- Particularly suitable for pulp capping
- Calcium release and a high pH value (pH 12) promote the formation of hydroxyapatite and tertiary dentin
- Flowable consistency
- Extra fast setting
- Mixing time: 30 sec.
- Working time: 2:00 min. (from start of mixing at 23 °C (73 °F))
- Next treatment step: 3:00 min.

Set also in humid conditions



2 x 0.25 g

<b>Harvard MTA-CAP (MTA XR Flow Fast)</b>	
2 OptiCaps® ea. 0.25 g, ea. packed in an aluminum pouch	7081503
<b>Harvard Applier OptiCaps®</b>	7092000


### Harvard CalciumHydroxide

Calcium hydroxide paste

- Suitable for direct and indirect pulp capping
- Paste with perfect consistency
- Good price / performance ratio



2 ml

<b>Harvard CalciumHydroxide</b>	
2 ml syringe, 3 needle tips	7071261

# Endodontics

## PT – Pulpotomy

### Clinical case with Harvard MTA-PT (MTA XR Flow Fast)

Source: Thonemann/Federlin, University Regensburg

“ Product solutions that are increasingly adapted to the individual situation in terms of technology and material consistency make work in endodontics much easier. ”



Prof. Dr. Marianne Federlin,  
University Regensburg



Initial situation:  
Anterior tooth trauma,  
complicated crown fracture 21



Partial  
Pulpotomy



Application of  
Harvard MTA-PT



Covering with  
Glass ionomer cement



4 months after trauma:  
21 vital



1 year after trauma:  
21 vital



# Endodontics

## PT – Pulpotomy

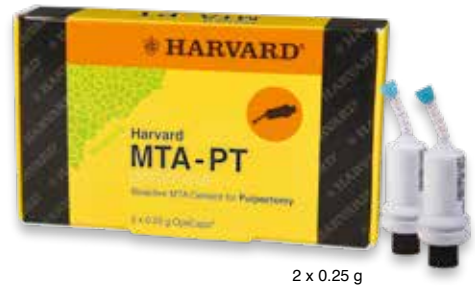
### Harvard MTA-PT

**NEW!**

Fast cure, reinforced radiopaque MTA cement in capsules

- Particularly suitable for pulpotomy
- Calcium release and a high pH value (pH 12) promote the formation of hydroxyapatite as well as tertiary dentin
- Flowable consistency
- Particularly radiopaque
- Fast setting
- Mixing time: 30 sec.
- Processing time: 2:00 min. (from start of mixing at 23 °C (73 °F))
- Next treatment step: 3:00 min.

Set also in humid conditions



2 x 0.25 g

<b>Harvard MTA-PT</b>	
2 OptiCaps® ea. 0.25 g, ea. packed in an aluminum pouch	7081512

<b>Harvard Applier OptiCaps®</b>	7092000
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### Click before you mix. Instructions for activating and mixing Harvard OptiCaps®

1. OptiCaps® before activation.
2. Activation: press the plunger on a hard and plane surface to the end into the OptiCaps®.
3. Insert the OptiCaps® into the Harvard Applier OptiCaps® and click once to standardize.
4. To mix capsule.
5. Insert the OptiCaps® into the Harvard Applier OptiCaps®. Remove the pin from the nozzle. If not, capsule can burst.
6. Extrude the mixed material on a glass plate or apply directly. Unlock the gun and remove the capsule.

**Mixing time**  
30 sec

**Working time**  
2:00 min  
from the start of mixing at 23 °C (73 °F)

**Next clinical step**  
3:00 min

# Endodontics


## Root Canal Preparation

### Harvard Glide & Clean **NEW!**

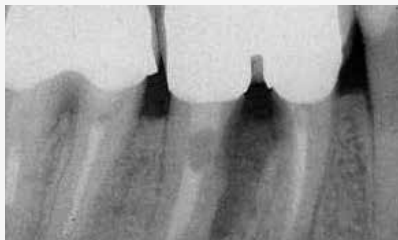
Harvard Glide & Clean is a carbamide peroxide and EDTA containing gel in syringes for the effective and facilitated cleaning of the root canal. EDTA supports the preparation by dissolving calcium salts from the canal. Developed for use in combination with sodium hypochlorite rinses.

- Facilitated removal of pulp tissue, dentine chips and debris
- Removal of the smear layer
- Chemical preparation
- Lubricant for rotary instruments for root canal preparation, reduction of the risk of fracture



Harvard Glide & Clean	
2 ml syringe, 6 flexible tips	7081560

“ Harvard MTA Universal OptiCaps®.  
This product should not be  
missing in any practice. ”



Initial situation



After treatment



After 1 year

**Mineral Trioxide Aggregate (MTA) should not be missing in any practice, it is the ideal product for the direct pulp capping.** Compared to calcium hydroxide preparations, MTA does not form a necrosis zone, but stimulates the dentin to form a covering layer over the cement. The pulp remains vital and the patient remains symptom-free. Due to its biocompatibility, there is no inflammatory reaction of the bone if a perforation site in the apical region or a filled apex is lightly plugged with MTA cement. A slight expansion of the cement leads to a secure sealing of the indication site. Simple and precise application with optimum consistency is provided by the Harvard MTA Universal OptiCaps®. **Valuable treatment time is saved, and I am very satisfied with the good treatment results.**



Oxana Hilfer,  
Dentist Hamburg

# Endodontics

## Root Canal MTA Universal

### Harvard MTA Universal OptiCaps®


Endodontic repair cement in capsules based on MTA

- Highly biocompatible material
- Excellent bond to dentin
- Radiopaque
- Firm and homogenous consistency directly from the capsule
- Forms tertiary dentin
- Setting not affected by humidity
- Suitable for pulp capping, sealing root perforations, root end fillings (orthograde or retrograde)
- Mixing time: 30 sec.
- Working time: 2:00 min. (from start of mixing at 23 °C (73 °F))
- Next clinical step: 5:00 min.

Set also in humid conditions



2 x 0.3 g

<b>Harvard MTA Universal OptiCaps®</b>	
2 OptiCaps® ea. 0.3 g, ea. packed in an aluminum pouch	7081502

<b>Harvard Applier OptiCaps®</b>	7092000
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### Harvard MTA Universal HandMix

Endodontic repair cement based on MTA, as HandMix

- Biocompatible material
- Excellent bond to dentin
- Radiopaque
- Forms tertiary dentin
- Setting not affected by humidity
- Suitable for pulp capping, sealing root perforations, root end fillings (orthograde or retrograde)
- Very easy to mix



1 g / 3 ml or 2 g / 4 ml

<b>Harvard MTA Universal HandMix</b>	
1 g powder, 3 ml liquid, dosage spoon, mixing pad, spatula	7081507
2 g powder, 4 ml liquid, dosage spoon, mixing pad, spatula	7081508

# Endodontics

## Root Canal MTA Special

### Harvard MTA-Repair

(MTA XR)

Extra radiopaque MTA cement in capsules

- Specially recommended for filling of root perforations
- Firm consistency
- Extra radiopaque
- Mixing time: 30 sec.
- Working time: 2:00 min. (from start of mixing at 23 °C (73 °F))
- Next clinical step: 5:00 min.

Set also in humid conditions



2 x 0.25 g

Harvard MTA-Repair (MTA XR)	
2 OptiCaps® ea. 0.25 g, ea. packed in an aluminum pouch	7081505

### Harvard MTA-Ortho plus EndoDirect

(MTA XR Flow EWT)

Flowable MTA cement in capsules with extended working time

- Particularly suitable for direct and easy close of the apex
- Flowable consistency
- Extra long working time (4:00 min.)
- Mixing time: 30 sec.
- Working time: 4:00 min. (from start of mixing at 23 °C (73 °F))
- Next treatment step: after only 10:00 min.

Set also in humid conditions

#### Easy to use:

1. Mix the MTA capsule
2. Fill the endo syringe with the material directly from the capsule
3. Thanks to the flexible endo tip and the endo-stop, controlled MTA application up to the apex of the root canal



2 x 0.25 g

Harvard MTA-Ortho (MTA XR Flow EWT)	
2 OptiCaps® ea. 0.25 g, ea. packed in an aluminum pouch, 2 MTA EndoDirect syringes with flexible endo tip	7081510

### Harvard MTA-Retro

(MTA XR Fast)

Fast setting, extra radiopaque MTA cement in capsules

- Specially recommended for root end filling (retrograde)
- Firm consistency
- Extra radiopaque
- Fast setting
- Mixing time: 30 sec.
- Working time: 2:00 min. (from start of mixing at 23 °C (73 °F))
- Next clinical step: 3:00 min.

Set also in humid conditions



2 x 0.25 g

Harvard MTA-Retro (MTA XR Fast)	
2 OptiCaps® ea. 0.25 g, ea. packed in an aluminum pouch	7081506

Harvard Applier OptiCaps®	7092000
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# Endodontics

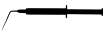
## Root Canal Dressing

### Harvard RootTemp

**NEW!**

Harvard RootTemp is calcium hydroxide for temporary root canal dressing

- Bacteria hostile environment (pH 12)
- Mineralizing
- Good radiopacity
- Easy application directly into the root canal with flexible, curved EndoTip

<b>Harvard RootTemp</b>	
2 ml syringe, 6 endo tips	7071264



2 ml



Good to  
**know ...**

Harvard

# BioCal<sup>®</sup> - RootSeal

The bioactive way of root canal

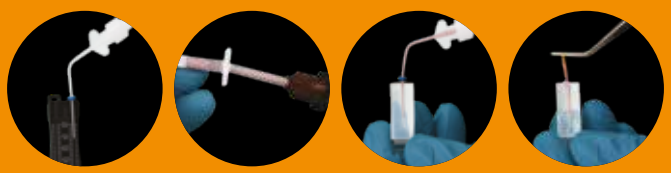


sealing.

**NEW!**



Application with the EndoDirect syringe:



# Endodontics

## Root Canal Sealer

### Harvard BioCal® - RootSeal

Harvard BioCal®-RootSeal is a **bioactive**, resin-modified MTA root canal sealer

Apatite formation through reaction of released calcium and hydroxide with endogenous phosphate.

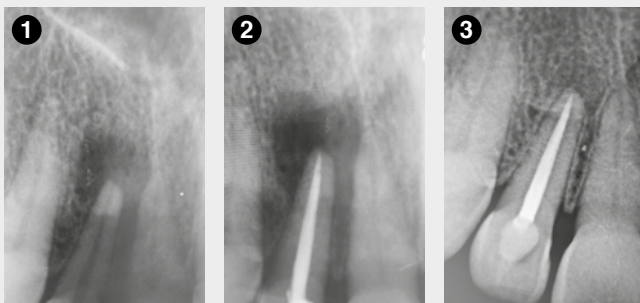
- Excellent seal
- Apatite formation through reaction of released calcium and hydroxide with endogenous phosphate
- Mineralizing
- Environment hostile to bacteria (pH 11)
- Self cure and additional light cure for faster setting of the surface
- Easy to remove and revise, e.g. for subsequent post placement with fiber posts
- Convenient application from the minimix syringe
- Radiopaque
- **Optional:** for optimal, bubble-free, direct application into the root canal also available with **EndoDirect syringes** (Harvard BioCal®-RootSeal plus EndoDirect)



<b>Harvard BioCal® - RootSeal plus EndoDirect</b>	
2.5 ml minimix syringe 10 EndoDirect syringes with flexible endo-tip 10 mixing tips (S-Brown)	7081552
<b>Harvard BioCal® - RootSeal</b>	
2.5 ml minimix syringe 10 mixing tips (5 x S-Brown, 5 x O-Brown) 5 Intra Tips long, mixing pad	7081553

<b>Harvard Mini 4:1 / 10:1 S-Brown</b> refill bag with 50 mixing tips	7093050
<b>Harvard Mini 4:1 / 10:1 O-Brown</b> refill bag with 50 mixing tips	7091100
<b>Harvard IntraTips long</b> refill bag with 50 mixing tips	7083620

### “The bioactive success!”



- 1.: Apical radiolucency 12
- 2.: Definitive root canal filling with **Harvard BioCal®-Root Seal** and gutta-percha
- 3.: Recall after 6 month:  
Successful bone regeneration in apical region



Dr. Hassan Salma, Dentist  
Mediclinic Al Noor Hospital, Abu Dhabi

# Endodontics

## Root Canal Sealer

### Harvard MTA - RootSeal plus EndoDirect

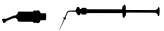
**NEW!**

Harvard MTA - RootSeal plus EndoDirect is a bioactive MTA root canal sealer

- Excellent seal
- Apatite formation through reaction of released calcium and hydroxide with endogenous phosphate
- Mineralizing
- Bacteria-hostile environment (pH 12)
- Self cure
- Easily removable with Mastercone/Guttapercha
- Radiopaque
- OptiCaps® capsule for consistent consistency and convenient mixing
- Direct application into the root canal with EndoDirect syringe



2 x 0.25 g

<b>Harvard MTA - RootSeal</b>	
2 OptiCaps® ea. 0.25 g, ea. packed in an aluminum pouch, 2 MTA EndoDirect syringes with flexible endo-tip	7081511

The EndoDirect syringe for **perfect application**.  
Ensures optimal placement of the material in the root canal.



Angled needle tip with individual working length



Filling the EndoDirect syringe



Insertion of the plunger into the EndoDirect syringe



Application of Harvard MTA - RootSeal into the root canal

“ Harvard MTA – RootSeal for me the first choice.”



Amir Ibrik D.D.S., N.D.B., E.R.B., MSc  
Scientific Affairs



Harvard MTA – RootSeal is a pure MTA, easy to use, hydrophilic, has a very good consistency and offers a very good adaptation and sealing of the root canal wall. Further advantages are: a high pH value (antibacterial effect) biocompatibility, fast setting time, no postoperative pain and easy revisability.



# Harvard SuperSnap<sup>®</sup>

Impression Material

**Fast**  
as the  
**fastest!**





# Harvard SuperSnap<sup>®</sup>

Superhydrophilic vinyl polysiloxane impression material with SuperSnap property

## The recommended combinations of Harvard SuperSnap<sup>®</sup>:

Technique	phase 1 / step 1	phase 2 / step 2
<b>2 steps / 2 phases</b> Putty-wash technique (Material application successively)		

Technique	phase 1+2 / 1 step
<b>1 step / 2 phases</b> Sandwich technique (Material application simultaneously)	

Technique	1 phase / 1 step
<b>1 step / 1 phase</b> Monophasetechnique	

# Prosthetics

## Impression Materials

### Harvard SuperSnap®

Superhydrophilic vinyl polysiloxane impression material with SuperSnap property

- Same convenient working time as Harvard PremiumSil – **shortened intra oral setting time**
- Super hydrophilicity for perfect wettability and excellent reproduction of details
- Extremely user- and patient-friendly
- Excellent flow properties
- High elastic recovery, dimension stability
- Intensive colors for excellent legibility
- Available in two Snap-Set times: **Regular Snap** and **Quick Snap**
- Optimal kneadable consistency for the putty products
- Suitable for the sandwich technique and the putty-wash technique
- **Different viscosities:**  
Putty, Putty Soft, Heavy, Mono, Medium, Light



Harvard SuperSnap® Regular Snap	Color		
2 automix cartridges ea. 50 ml, 12 mixing tips 1:1, 4 IntraTips yellow			
Light	orange		7083801
Medium	green		7083811
2 automix cartridges ea. 50 ml, 12 mixing tips 1:1			
Mono*	blue		7083821*
Heavy*	black-grey		7083831*
2 jars ea. 600 g, 2 spoons			
Putty	black		7083841
Putty Soft	black		7083851
MaxiMix cartridge, 380 ml, 10 dynamic mixers, 1 bayonet ring			
Putty Soft	black		7083853
Heavy*	black		7083833*

Harvard Auto-T 1:1 O-Yellow refill bag with 50 mixing tips for Light, Medium – Regular / Quick	7098000
Harvard Auto-T 1:1 O-Green refill bag with 50 mixing tips for Heavy – Regular / Quick	7098010
Harvard Auto-T 1:1 O-Pink refill bag with 50 mixing tips for Mono – Regular / Quick	7098020
Harvard IntraTips yellow refill bag with 50 mixing tips for Light, Medium – Regular / Quick	7083619
Harvard Maxi 5:1 Dynamic refill bag with 50 dynamic mixers and 2 bayonet rings for Putty Soft MaxiMix Putty Soft MaxiMix Heavy – Regular / Quick MaxiMix	7091400
Harvard Dispenser Automix 1:1	7095100

Harvard SuperSnap® Quick Snap	Color		
2 automix cartridges ea. 50 ml, 12 mixing tips 1:1, 4 IntraTips yellow			
Light	orange		7083802
Medium	green		7083812
2 automix cartridges ea. 50 ml, 12 mixing tips 1:1			
Mono*	blue		7083822*
Heavy*	black-grey		7083832*
2 jars ea. 600 g, 2 spoons			
Putty	black		7083842
Putty Soft	black		7083852
MaxiMix cartridge, 380 ml, 10 dynamic mixers, 1 bayonet ring			
Heavy*	black-grey		7083834*

\* No stock item, please contact the Harvard sales team.










# Harvard PremiumSil

Superhydrophilic vinyl polysiloxane impression material

## The recommended combinations of Harvard PremiumSil:

Technique	Phase 1	Phase 2
<b>2 steps / 2 phases</b> Putty-wash technique (Material application successively)	 Putty + Light	 Putty + Medium
<b>1 step / 2 phases</b> Sandwich technique (Material application simultaneously)	 Putty Soft + Medium	 Heavy* + Medium
<b>1 step / 1 phase</b> Monophasetechnique	 Mono	

# Prosthetics

## Impression Materials

### Harvard PremiumSil

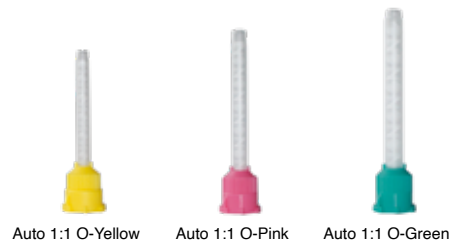
Superhydrophilic vinyl polysiloxane impression material

- Super hydrophilicity for perfect wettability and excellent reproduction of details
- Long working time, short intra oral setting time
- Excellent flow properties
- Optimal kneadable consistency for the putty products
- Very low shrinkage
- Suitable for the sandwich technique and the putty-wash technique
- Two setting times
- Durable storage of impression
- **Different viscosities: Putty, Putty Soft, Heavy, Mono, Medium, Light**



Harvard PremiumSil Normal Set	Color		
2 automix cartridges ea. 50 ml, 12 mixing tips 1:1, 4 IntraTips yellow			
<b>Light</b>	orange		7083701
<b>Medium</b>	bright green		7083711
4 automix cartridges ea. 50 ml			
<b>Light</b>	orange		7083703
2 automix cartridges ea. 50 ml, 12 mixing tips 1:1			
<b>Mono</b>	bright blue		7083721
<b>Heavy</b>	bright purple		7083731
2 jars ea. 600 g, 2 spoons			
<b>Putty</b>	dark purple		7083751
<b>Putty Soft</b>	purple		7083741
MaxiMix cartridge, 380 ml, 10 dynamic mixers, 1 bajonet ring			
<b>Putty Soft</b>	purple		7083740

Harvard PremiumSil Fast Set	Color		
2 automix cartridges ea. 50 ml, 12 mixing tips 1:1, 4 IntraTips yellow			
<b>Light Fast</b>	orange		7083702
<b>Medium Fast</b>	bright green		7083712
4 automix cartridges ea. 50 ml			
<b>Light Fast</b>	orange		7083704
2 automix cartridges ea. 50 ml, 12 mixing tips 1:1			
<b>Mono Fast</b>	bright blue		7083722
<b>Heavy Fast</b>	bright purple		7083732
2 jars ea. 600 g, 2 spoons			
<b>Putty Fast</b>	dark purple		7083752
<b>Putty Soft Fast</b>	purple		7083742
MaxiMix cartridge, 380 ml, 10 dynamic mixers, 1 bajonet ring			
<b>Heavy Fast</b>	bright purple		7083733



<b>Harvard Auto 1:1 O-Green</b>	7096000
refill bag with 50 mixing tips for Harvard PremiumSil Heavy / Heavy Fast	
<b>Harvard Auto 1:1 O-Pink</b>	7091200
refill bag with 50 mixing tips for Harvard PremiumSil Mono / Mono Fast	
<b>Harvard Auto 1:1 O-Yellow</b>	7091300
refill bag with 50 mixing tips for Harvard PremiumSil Light / Light Fast Harvard PremiumSil Medium / Medium Fast	
<b>Harvard IntraTips yellow</b>	7083619
refill bag with 50 mixing tips for Harvard PremiumSil Light / Light Fast Harvard PremiumSil Medium / Medium Fast	
<b>Harvard Maxi 5:1 Dynamic</b>	7091400
refill bag with 50 dynamic mixers and 2 bajonet rings for Harvard PremiumSil Putty Soft MaxiMix Harvard PremiumSil Heavy Fast MaxiMix	
<b>Harvard Dispenser Automix 1:1</b>	7095100

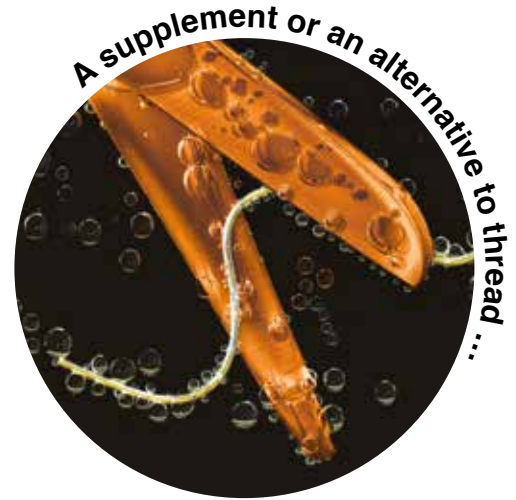
# Prosthetics





## Retraction Material

### Harvard LiquiCord®

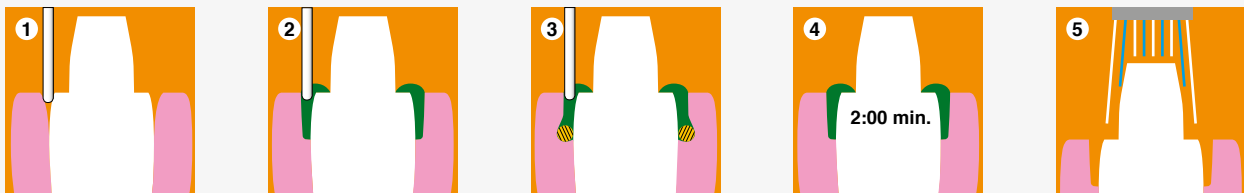
Retraction paste for temporary gingiva displacement

- For patients: less painful
- For dentists: time saving, easy to use
- For a dry and expanded sulcus
- Neutral taste



Harvard LiquiCord®		
10 x 0.7 g, 20 needle tips		7083870
Harvard Sulcus Former – small		7083872
refill bag with 100 sulcus formers		
Harvard Sulcus Former – medium		7083873
refill bag with 100 sulcus formers		
Harvard Sulcus Former – large		7083874
refill bag with 50 sulcus formers		
Harvard NeedleTips H18 white		7083875
refill bag with 50 needle tips		

#### Optional Accessories: The Sulcus Former in the appropriate size



1. Introduce the tip / needle into the sulcus, opening the sulcus.
2. Move the top of the tip slowly and evenly around the tooth while pressing out the paste. Fill the sulcus all around with enough Harvard LiquiCord® so that an excess appears.
3. If necessary, Harvard LiquiCord® can be used in combination with a retraction cord, that is placed before in the sulcus, to open the sulcus further.
4. Let Harvard LiquiCord® work for at least 2 minutes and keep away all moisture during this time.
5. After this time flush off Harvard LiquiCord® completely from the sulcus with air and water.

# Prosthetics

## Bite Registration Material

### Harvard Bite

Bite registration material based on A-silicone

- Precise and distortion-free
- Fast setting (45 sec.)
- Very low shrinkage
- Easy to cut, not brittle
- Ideal consistency
- Durable storage of bite registrate
- Vanilla smell
- Neutral taste



<b>Harvard Bite</b>	
2 x 50 ml automix cartridge, in the shade Yellow (vanilla smell), 12 mixing tips	7083700
4 x 50 ml automix cartridge	7083710

<b>Harvard Auto 1:1 O-Green</b>	7096000
refill bag with 50 mixing tips	
<b>Harvard Dispenser Automix 1:1</b>	7095100



Intraoral application of **Harvard Bite**: optimal consistency



Only 45 seconds cure



Excellent reproduction of the bite situation



Bite registration



Precise trimming and grindability

“ Harvard Bite has convinced me with its positive properties. ”

The advantages of Harvard Bite for CMD registrations are that the material becomes very firm after curing, is very thin-flowing and the bite can thus be ideally fixed in a locked position. I would recommend this material to all dentists and colleagues at any time.



Kay Zischow,  
Zischow Dental Hamburg GmbH

From temporary to permanent

# Every Harvard product solution FITS PERFECTLY FOR YOU!





# Prosthetics

## Temporary Crown & Bridge Materials


### Harvard TEMP C&B

Temporary crown and bridge material, ratio 10:1

- Reliable and easy to use
- Final processing after 5:00 min
- Very good fracture resistance and hardness specially for veneers and longer bridge spans
- Very low polymerization temperature
- Natural esthetics and fluorescence
- High color stability



50 ml

Harvard TEMP C&B	
50 ml automix cartridge 10:1, 10 mixing tips	
A1	7081651
A2	7081652
A3	7081653
A3.5	7081654
BL	7081650
Harvard Auto 4:1 / 10:1 S-Blue	7094000
refill bag with 50 mixing tips	
Harvard Dispenser Automix 4:1 / 10:1	7095000


### Harvard TEMP Glaze LC

Varnish for temporary crowns and bridges

- Highly esthetic and shiny surface without polishing
- Ideal for crowns and bridges in the visible area



30 ml

Harvard TEMP Glaze LC	
30 ml bottle	7081730

### Harvard TEMP C&B Pro

Temporary crown and bridge material, ratio 4:1

- Reliable and easy to use
- Good fracture resistance and hardness
- Low polymerization temperature
- Natural esthetics and fluorescence
- Color stability
- Good price / performance ratio



50 ml

Harvard TEMP C&B Pro	
50 ml automix cartridge 4:1, 10 mixing tips	
A1	7081641
A2	7081642
A3	7081643

Harvard Auto 4:1 / 10:1 S-Blue	7094000
refill bag with 50 mixing tips	
Harvard Dispenser Automix 4:1 / 10:1	7095000

# Prosthetics

## Temporary Luting Cements

### Harvard TEMP Cem

Eugenol-free temporary luting cement in a minimix syringe

- Optimal adhesion
- Easy removal of the temporary
- No residual cement on the core
- Contains zinc oxide
- Excellent flow
- Eugenol-free
- Easy removal of excess material



Harvard TEMP Cem	
5 ml minimix syringe, 10 mixing tips	7081100
10 ml minimix syringe, 20 mixing tips	7081200

Harvard Mini 1:1 S-Brown refill bag with 50 mixing tips	7091050
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“Harvard TEMP Cem save precious working time and make patients feel satisfied.”



Preparation



Crown fixation with Harvard TEMP Cem



Removal of excess material



Temporary

Harvard TEMP Cem is a temporary cement of the latest generation. The minimix syringe saves valuable working time and is easy to use. Depending on the application, the cement can hold the restoration reliably for several days to several months. Excess can be easily removed and cleaned without leaving any residue.

I save valuable working time and my patients are very satisfied.




Oxana Hilfer,  
Dentist Hamburg

### Harvard TEMP Cem EasyDose®

Eugenol-free temporary luting cement in a dosing syringe

- Handmix – more economic
- Optimal adhesion
- Easy removal of the temporary
- No residual cement on the core
- Contains zinc oxide
- Excellent flow behavior
- Eugenol-free
- Easy removal of excess



Harvard TEMP Cem EasyDose®	
10 ml EasyDose® syringe	7081103

# Prosthetics

## Temporary Luting Cements


### Harvard

## TEMP Cem Esthetic

Translucent zinc oxide cement for temporary luting

- Translucent and esthetic material
- Easy removal of excess material
- Easy removal of the restoration
- No residual cement on the core
- Eugenol-free



Harvard TEMP Cem Esthetic	
5 ml minimix syringe, 10 mixing tips	7081104

Harvard Mini 1:1 S-Brown	7091050
refill bag with 50 mixing tips	

## Semi-permanent cement

Special for implant crowns and bridges:

### Harvard

## Implant

### Semi-permanent

Dual cure composite cement for semi-permanent cementation of implant based crowns and bridges

- Safe fixation, easy removal, easy re-cementation
- Elastic polymer film to minimize chewing pressure on the bone
- Excellent sealing, no shrinkage
- Easy removal of the crown
- Easy removal of excess material
- Contains zinc oxide



Harvard Implant Semi-permanent	
5 ml minimix syringe, 10 mixing tips	7081400

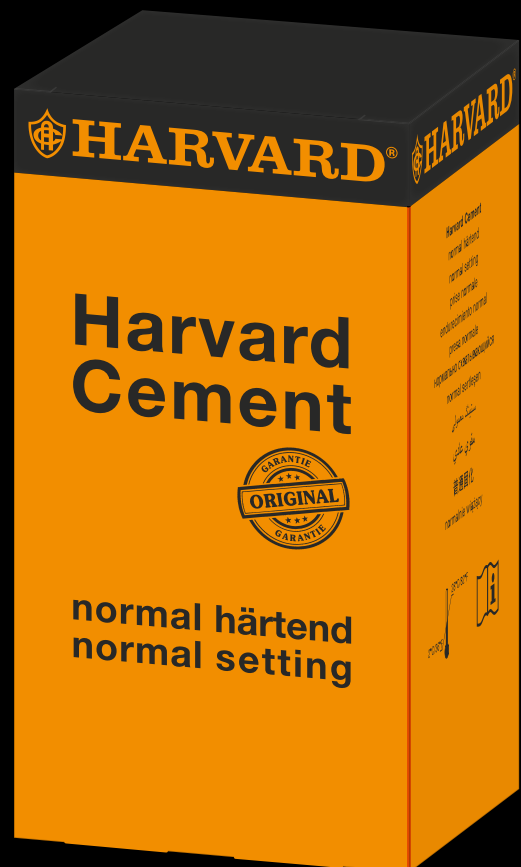
Harvard Mini 4:1 / 10:1 S-Brown	7093050
refill bag with 50 mixing tips	

# It all started in 1892 with Harvard Cement.

The cement. Timeless and contemporary. Harvard Cement stands for a long and successful history. In addition, Harvard the cement inventor has developed into a dental specialist in almost all areas. See for yourself ...



1892



# Prosthetics

## Harvard Cements

### Harvard Cement The Original. Since 1892.

Zinc phosphate cement for permanent luting of restorations and for lining.  
**The classic – well-proven since 1892.**

- High compressive strength and low film thickness
- Good biocompatibility
- Easy and safe application
- Unmatched price / performance ratio for luting and lining materials
- Applicable for:
  - Zircon oxide ceramic
  - Silicate ceramic
  - Aluminium oxide ceramic
  - Gold and non precious-metals
- Cement according to DIN EN ISO 9917-1
- Available in two setting times: normal and fast setting
- **Well-proven since 1892**

(Mixing advice see page 68)



15 ml / 40 ml

15 ml / 40 ml





50 x 0.5 g






10 x 0.5 g

**Also available in OptiCaps®**

- For permanent luting of crowns and bridges
- Quantity for 1 to 2 crowns
- **Mixing time: 10 sec.**
- **Working time: 1:30 min.** from start of mixing

Harvard Cement normal setting			
<b>Powder</b>		Single powder	Clinic powder
Shade		35 g	100 g
1-White		7002501	7002201
2-Bluish white			7002202
3-Yellowish white		7002503	7002203
4-Light yellow		7002504	7002204
5-Yellow			7002205
<b>Liquid</b>		Single liquid	Clinic liquid
		15 ml	40 ml
		7002600	7002300

Harvard Cement quick setting			
<b>Powder</b>		Single powder	Clinic powder
Shade		35 g	100 g
1-White		7001501	7001201
2-Bluish white			7001202
3-Yellowish white		7001503	7001203
4-Light yellow			7001204
5-Yellow			7001205
<b>Liquid</b>		Single liquid	Clinic liquid
		15 ml	40 ml
		7001600	7001300

Harvard Cement OptiCaps®		
ea. packed in an aluminum pouch		
10 OptiCaps® ea. 0.5 g, Shade Yellowish white		7081310
50 OptiCaps® ea. 0.5 g, Shade Yellowish white		7081350
Harvard Applier OptiCaps®		7092000

### Harvard Polycarboxylat Cement


Zinc polycarboxylate cement for permanent luting and lining


- Non-irritant for sensitive teeth
- Cement according to DIN EN ISO 9917-1
- Easy and safe application
- Unmatched price / performance ratio for luting materials

(Mixing advice see page 68)



15 ml / 40 ml

<b>Powder</b>		Single powder	Clinic powder
Shade		35 g	100 g
3-Yellowish white		7031503	7031203
4-Light yellow		7031504	7031204

<b>Liquid</b>		Single liquid	Clinic liquid
		15 ml	40 ml
		7031600	7031300

# Prosthetics

## Glass Ionomer Cements for Luting

### Resin-reinforced

## Harvard IonoResin Cem Extra (LC)

Esthetic light and self cure resin-reinforced glass ionomer cement for luting of crowns and bridges, inlays, onlays and as a liner under composite fillings (with additional light curing)

- Good esthetics
- Low film thickness
- Practically insoluble
- Improved mechanical properties
- Very low shrinkage
- Set on demand by three types of curing: self + light cure + classical cement reaction
- Radiopaque
- HandMix or OptiCaps®



Harvard IonoResin Cem Extra (LC) 15 g powder – Universal / 10 ml liquid dosage spoon, mixing pad		7061116
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50 OptiCaps® ea. 0.4 g – Universal		7061251
Harvard Applier OptiCaps®		7092000

## Harvard IonoResin Cem (LC)

Self cure resin-reinforced glass ionomer cement for luting crowns and bridges (with additional light curing)

- Radiopaque
- Moisture tolerant
- Easy to mix and convenient to apply
- Good marginal fit and seal
- Practically insoluble
- In clinical situations close to the pulp use **Harvard CalciumHydroxide** liner (see also page 39)
- HandMix
- Good price / performance ratio



Harvard IonoResin Cem (LC) 15 g powder – Universal / 10 ml liquid dosage spoon, mixing pad		7041216
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# Prosthetics

## Glass Ionomer Cements for Luting

### Classical

## Harvard IonoGlas Cem Extra

Classical self cure glass ionomer cement for luting of crowns and bridges, metal based inlays, onlays and as a liner under composite fillings

- Good esthetics
- Radiopaque
- Low solubility
- Good adhesion to enamel and dentin
- High fluoride release
- Biocompatible
- HandMix or OptiCaps®




<b>Harvard IonoGlas Cem Extra</b> 15 g powder – Universal / 10 ml liquid dosage spoon, mixing pad		7042115
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50 OptiCaps® ea. 0.4 g – Universal	7042250
<b>Harvard Applier OptiCaps®</b>	7092000

## Harvard IonoGlas Cem

Classical self cure conventional glass ionomer cement for luting of crowns and bridges

- Good adhesion to dentin and enamel
- Fluoride release, biocompatible and radiopaque
- Easy to mix and to use
- Good marginal fit and seal
- HandMix
- Good price / performance ratio

<b>Harvard IonoGlas Cem</b> dosage spoon		
15 g powder – Universal / 10 ml liquid		7041115
35 g powder – White / 20 ml liquid		7041130
35 g powder – Universal / 20 ml liquid		7041135



# Prosthetics


## Permanent Luting Cements

### Harvard LuteCem SE

Self-adhesive and dual cure resin-modified luting cement

- Suitable for:
  1. Luting of posts made of ceramics, metal, fiber-reinforced materials
  2. Luting of crowns and bridges made of ceramics, zirconia, composites and metal
- Esthetic luting cement
- Dual cure
- Fluoride release
- Virtually no shrinkage!



<b>Harvard LuteCem SE</b>	
5 ml minimix syringe, 10 mixing tips Harvard Mini 4:1 / 10:1 S-Brown 5 mixing tips Harvard Mini 4:1 / 10:1 O-Brown 5 Intra Tips long	
Translucent	7081101
A2	7081105

<b>Harvard Mini 4:1 / 10:1 S-Brown</b> refill bag with 50 mixing tips	7093050
<b>Harvard Mini 4:1 / 10:1 O-Brown</b> refill bag with 50 mixing tips	7091100
<b>Harvard IntraTips long</b> refill bag with 50 mixing tips	7083620


### Harvard BioCal® - Cem

**NEW!**

**Bioactive**, self cure, self-adhesive, resin-reinforced MTA luting cement.  
Medium-high pH value. With additional light cure

- Suitable for:
  1. Luting of posts made of ceramics, metal, fiber-reinforced materials
  2. Luting of crowns and bridges made of ceramics, zirconia, composites and metal
- Calcium release
- Mineralization potential
- Alkaline, pH 9
- Self cure with additional light cure
- Radiopaque



<b>Harvard BioCal® - Cem</b>	
2.5 ml minimix syringe 5 mixing tips (S-Brown) 3 mixing tips (O-Brown) + 3 Intra Tips long	7081558

2.5 ml



# Prosthetics

## Transparent Matrix Material

### Harvard TransMatrix

Transparent matrix and bite registration material based on A-silicone

- Highly transparent to allow perfect light cure of composite through the matrix
- Appropriate final hardness and good detail reproduction
- Original shape remains unaltered
- Dimensionally stable over time and after disinfection
- Perfect consistency and thixotropy
- Fast setting time (1:20 min in mouth)
- Comfortable for the patient with neutral taste and flavor
- Time-saving – direct application in the mouth
- Also usable as transparent bite registration material



<b>Harvard TransMatrix</b> 2 x 50 ml automix cartridge, shade Transparent, 12 mixing tips		7083798
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<b>Harvard Auto 1:1 O-Green</b> refill bag with 50 mixing tips	7096000
<b>Harvard Dispenser Automix 1:1</b>	7095100

### “ Easy application of Harvard TransMatrix. ”



- 1: Initial situation
- 2: Application of Harvard TransMatrix to the surface to be prepared and adjacent teeth
- 3: Fast curing time (1:20 min. intraorally)
- 4: Complete matrix
- 5: Preparation with enamel chamfer
- 6: Etching of the prepared surface with **Harvard Etch**
- 7: Application of adhesive system, e.g. **Harvard InterLock ONE**
- 8: Application of a slightly warmed, moldable composite into the matrix, e.g. **Harvard UltraFill**
- 9: Correct repositioning of the filled matrix into the oral cavity
- 10: 40 sec. light curing through the matrix. Repeat the procedure after removing the matrix
- 11: Excess removal and polishing with suitable rotary instruments and, if necessary, finishing strips.
- 12: **Finished direct composite restoration.**



Amir Ibrik D.D.S., N.D.B., E.R.B., MSc  
Scientific Affairs

# Accessories and More.



# IV. Miscellaneous

## Accessories

<b>Harvard NeedleTips H18</b> with 50 needle tips for Harvard MultiChrome Flow, Harvard UltraFill Flow, Harvard PremiumFlow, Harvard IonoSphere Bulk Flow, Harvard CalciumHydroxide LC	7095158
<b>Harvard NeedleTips H18 white</b> with 50 needle tips for Harvard LiquiCord®	7083875
<b>Harvard NeedleTips H20</b> with 50 needle tips for Harvard IonoLine, Harvard RestoreFlow, Harvard BioCal®-Line	7091226
<b>Harvard NeedleTips H22</b> with 50 needle tips for Harvard BioCal®-CAP	7095162
<b>Harvard NeedleTips H25</b> with 50 needle tips for Harvard Etch	7095126
<b>Harvard Microbrush®</b> with 50 applicators for Harvard InterLock® ONE, Harvard InterLock®, Harvard Bond SE Mono, Harvard Restore System Kit, Harvard Bond SE Dual	7095156
<b>Harvard Auto-T 1:1 O-Yellow</b> with 50 mixing tips for SuperSnap® Light, Medium, Regular / Quick	7098000
<b>Harvard Auto-T 1:1 O-Green</b> with 50 mixing tips for SuperSnap® Heavy Regular / Quick	7098010
<b>Harvard Auto-T 1:1 O-Pink</b> with 50 mixing tips for SuperSnap® Mono, Regular / Quick	7098020
<b>Harvard IntraTips yellow</b> with 50 intra tips for Harvard PremiumSil Light, SuperSnap®, Light Fast, Medium, Medium Fast	7083619
<b>Harvard IntraTips long</b> with 50 intra tips long for Harvard Core, Harvard ZirconCore, Harvard LuteCem SE, Harvard BioCal®-RootSeal, Harvard BioCal®-Cem	7083620
<b>Harvard Mini 1:1 O-Brown</b> with 50 intra tips for Harvard Core, Harvard ZirconCore	7083610
<b>Harvard Mini 4:1 / 10:1 O-Brown</b> with 50 mixing tips for Harvard LuteCem SE, Harvard BioCal®-RootSeal, Harvard BioCal®-Cem	7091100
<b>Harvard Mini 4:1 / 10:1 S-Brown</b> with 50 mixing tips for Harvard LuteCem SE, Harvard Implant Semi-permanent, Harvard BioCal®-RootSeal plus EndoDirect, Harvard BioCal®-RootSeal, Harvard BioCal®-Cem	7093050
<b>Harvard Mini 1:1 S-Brown</b> with 50 mixing tips for Harvard TEMP Cem Esthetic, Harvard TEMP Cem	7091050
<b>Harvard Auto 4:1 / 10:1 S-Blue</b> with 50 mixing tips for Harvard TEMP C&B, Harvard TEMP C&B Pro	7094000
<b>Harvard Auto 1:1 O-Green</b> with 50 mixing tips for Harvard Bite, Harvard TransMatrix, Harvard PremiumSil Heavy / Heavy Fast	7096000
<b>Harvard Auto 1:1 O-Pink</b> with 50 mixing tips for Harvard PremiumSil Mono / Mono Fast	7091200
<b>Harvard Auto 1:1 O-Yellow</b> with 50 mixing tips for Harvard PremiumSil Light / Light Fast, Harvard PremiumSil Medium / Medium Fast	7091300
<b>Harvard Maxi 5:1 Dynamic</b> with 50 dynamic mixers and 2 bayonet rings for Harvard PremiumSil und Harvard SuperSnap®, Putty Soft MaxiMix, Heavy Fast MaxiMix	7091400
<b>Harvard Applier OptiCaps®</b> for all OptiCaps®	7092000
<b>Harvard Applier OptiTips®</b> for all OptiTips® und ComforTips®s	7095200
<b>Harvard Dispenser Automix 4:1 / 10:1</b> for Harvard TEMP C&B, Harvard TEMP C&B Pro	7095000
<b>Harvard Dispenser Automix 1:1</b> for Harvard Bite, Harvard TransMatrix, Harvard PremiumSil und Harvard SuperSnap®, Light / Light Fast, Medium / Medium Fast, Heavy / Heavy Fast, Mono / Mono Fast	7095100
<b>Harvard Sulcus Former – small</b> refill bag with 100 sulcus formers for Harvard LiquiCord®	7083872
<b>Harvard Sulcus Former – medium</b> refill bag with 100 sulcus formers for Harvard LiquiCord®	7083873
<b>Harvard Sulcus Former – large</b> refill bag with 100 sulcus formers for Harvard LiquiCord®	7083874



# IV Miscellaneous

## Mixing Advices



### For Harvard Cement



1

**Tip:**  
use a cold glass plate,  
especially in warm  
countries.

Dispense onto a clean, dry glass plate powder and liquid at approx. 23 °C (73 °F).



2

Divide into 4 portions as follows: 1/2, 1/4, 1/8, 1/8.



3

Mixing: start first 1/8 with the whole liquid quartely within 15 seconds.



4

Add second 1/8 and mix for 15 seconds while spreading.



5

Draw 1/4 into the mixture.



6

Mix while pressing with flat spatula in the next 30 seconds.



7

Mix with the remaining half portion for 30 seconds to obtain an homogen mass.



8

Use the entire surface of glass plate.



9

Ready-for-use cement mix within 90 seconds.

#### Harvard Cement normal setting:

For luting consistency: powder 1.5 g, liquid 1.0 g  
For cavity lining consistency: powder 2.1 g, liquid 1.0 g

#### Harvard Cement quick setting:

For luting consistency: powder 1.8 g, liquid 1.0 g

### For Harvard Polycarboxylat Cement

For mixing of polycarboxylate cement the whole amount of powder is divided into two equal halves. One half is further divided into two equal parts (quarter).

In 30 seconds mix one half of the powder into the liquid. Then the other two quarters are mixed in for another 15 seconds each. This will result in a total mixing time of 60 seconds.

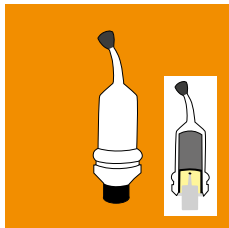
The mixing ratio (by weight) of powder to liquid is 2.9 : 1 (luting cement) or 3.6 : 1 (liner).

# IV Miscellaneous

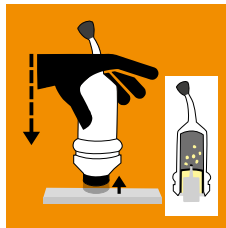
## Activating and mixing Harvard OptiCaps®

### “Click before you mix!”

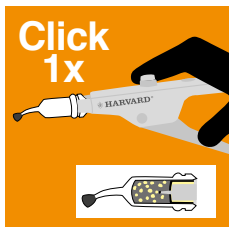
Remove capsule (OptiCaps®) from the pouch



1. OptiCaps® before activation.

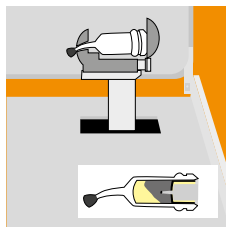


2. For activation of the OptiCaps® press the plunger on a hard and plane surface to the end into the OptiCaps®.

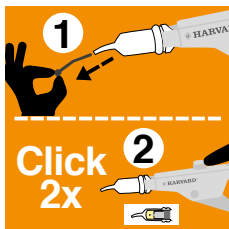


3. Insert the OptiCaps® into the Harvard Applier OptiCaps® and click once to standardize.

Note: The plunger must be at the same level as the bottom of the capsule.

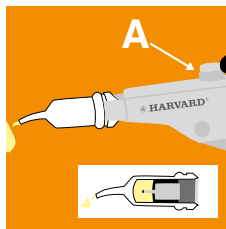


4. Insert the OptiCaps® into a mixer, close lid and mix immediately for the period mentioned in the instructions for use (with about 4300 oscillations / min).



5. Insert the OptiCaps® into the Harvard Applier OptiCaps®. Remove the pin from the nozzle. If not, capsule can burst.

Pull the lever twice (2 clicks) to prime the OptiCaps®.



6. Extrude the mixed material on a glass plate or apply directly. Unlock the gun (push button A) and remove the OptiCaps®.

**Only** with the Harvard Applier OptiCaps® (Order-No. 7092000) the optimal amount of mixed material is guaranteed.

For the selection of a suitable capsule mixer, our sales and marketing colleagues are gladly available to you.

### Mixing & working times of various Harvard OptiCaps® products.

Product	Mixing time	Working time*	Next clinical step
Harvard MTA-CAP (MTA XR Flow Fast)	30 sec	2:00 min	3:00 min
Harvard MTA-PT	30 sec	2:00 min	3:00 min
Harvard MTA Universal	30 sec	2:00 min	5:00 min
Harvard MTA-Repair (MTA XR)	30 sec	2:00 min	5:00 min
Harvard MTA-Ortho (MTA XR Flow EWT)	30 sec	4:00 min	10:00 min
Harvard MTA-Retro (MTA XR Fast)	30 sec	2:00 min	3:00 min
Harvard MTA-RootSeal	30 sec	>10:00 min	n/a
Harvard Cement	10 sec	1:30 min	n/a
Harvard Ionoglas Fill Extra	10 sec	1:30 min	n/a
Harvard Ionoresin Fill Extra	10 sec	1:30 min	n/a
Harvard Ionoglas Cem Extra	10 sec	1:30 min	n/a
Harvard Ionoresin Cem Extra	10 sec	2:00 min	n/a

\* from the start of mixing at 23 °C (73 °F)







**HARVARD®**

Much more  
than you  
expect.

Harvard Vertriebspartner.

Harvard Dental International GmbH

Margaretenstr. 2 - 4, 15366 Hoppegarten, Germany

Tel.: + 49 30/99 28 978-0, Fax: + 49 30/99 28 978-19, [info@harvard-dental-international.de](mailto:info@harvard-dental-international.de)

[www.harvard-dental.de](http://www.harvard-dental.de)