

A World full of Innovative Dental Products.



Restoratives

The new standard of composites

Endodontics

The NEW bioactive materials

Prosthetics

Discover the incredible variety

Classical:
Harvard Cement.
The Original. Since 1892.

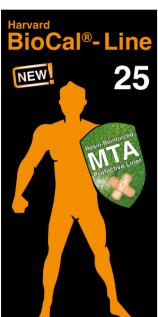


Made in Germany





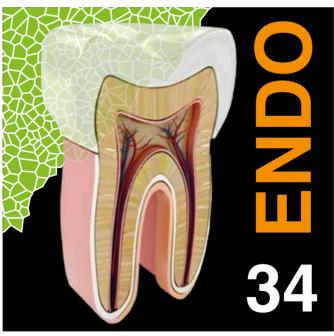
















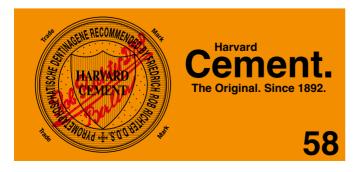




Table of contents

Innovative Dental Products 2023

Hestoratives		Hoot Canal Sealers	44
		Harvard BioCal®-RootSeal Harvard MTA-RootSeal	44 46
Composite for Fillings		Haivaiu WIA-nootseal	40
Harvard MultiChrome	8		
Harvard MultiChrome Flow	10	Prosthetics	
Harvard UltraFill	12	1 10011101100	
Harvard UltraFill Flow	14	Impression Metarials	
Harvard PremiumFill •	15	Impression Materials	
Harvard PremiumFlow •	16	Harvard SuperSnap®	48
Harvard Restore	17	Harvard PremiumSil	50
Harvard RestoreFlow	17		
Harvard IonoSphere Bulk Flow	18	Retraction Material	52
Light Cure Adhesives		Harvard LiquiCord®	52
Harvard InterLock® ONE Universal Adhesive	21	Bite Registration Material	
Harvard InterLock®	22	Harvard Bite	53
Harvard Bond SE Mono	22	naivaiu bile	55
Harvard Self-Bond	23	T 0 0 0 0 1 1 1 1 1 1 1	
Harvard Bond TE Mono	23	Temporary Crown & Bridge Materials	
Harvard Etch	23	Harvard TEMP C&B Ultra	54
		Harvard TEMP C&B	55
Liners		Harvard TEMP C&B Pro	55
Harvard BioCal®-Line	25		
Harvard CalciumHydroxide LC	28	Temporary Luting Cement	
Harvard IonoLine	28	Harvard TEMP Cem	56
		Harvard TEMP Cem EasyDose®	56
Class Isnamor Coment for Fillings		Harvard TEMP Cem Esthetic	57
Glass Ionomer Cement for Fillings	00		
Harvard IonoResin Fill Extra (LC) Harvard IonoGlas Fill Extra	30 31	Semi-Permanent Luting Cement	
Harvard IonoGlas Fill	31	Harvard Implant Semi-permanent	57
		Harris and Occurrents	
Core Build-Up & Post Cementing		Harvard Cements	
Harvard ZirconCore	32	Harvard Cement. Das Original. Seit 1892.	58
Harvard Bond SE Dual	33	Harvard Polycarboxylat Cement	59
		Glass Ionomer Cements for Luting	
Endodontics		Harvard IonoResin Cem Extra (LC)	60
		Harvard IonoResin Cem (LC)	60
Pulp Protection – CAP		Harvard IonoGlas Cem Extra	61
Harvard BioCal®-CAP	36	Harvard IonoGlas Cem	61
Harvard MTA-CAP (MTA XR Flow Fast)	36 37		
Harvard CalciumHydroxide	37	Permanent Luting Cement	
Tiaivaru Galciumi iyuroxide	37	Harvard LuteCem SE	63
Dulmatamus DT		Harvard VeneerCem	63
Pulpotomy – PT		Tidi Valia Vollooi Oolii	-
Harvard MTA-PT	38	Transparent Matrix Material	
		Transparent Matrix Material	•
Root Canal MTA Universal		Harvard TransMatrix	64
Harvard MTA Universal OptiCaps®	39		
Harvard MTA Universal HandMix	39	Miscellaneous	
Poot Canal MTA Specialities			
Root Canal MTA Specialities	Λď	Accessories	66
Harvard MTA-Repair (MTA XR) Harvard MTA-Ortho (MTA XR Flow EWT)	41 41		
Harvard MTA-Retro (MTA XR Fast)	41	Mixing Advices	68
HIGH VOICE (INTERNATION OF TASK)	74	Notes	70
Root Canal-Preparation &			
-Dressing			
Harvard Glide & Clean	43		
Harvard RootTemp	43		



66 Find your Harvard Smile. 37

Innovative Dental Products. Made in Germany.

New at Harvard

- 1. Harvard MultiChrome
- 2. Harvard IonoSphere Bulk Flow
- 3. Harvard BioCal®-Line
- 4. Harvard BioCal®-CAP
- 5. Harvard BioCal®-RootSeal
- 6. Harvard MTA-RootSeal
- 7. Harvard TEMP C&B Ultra
- 8. Harvard VeneerCem

Preferred COMPOSITION in your hands.



Love is.

... when dentists say THANK YOU to Harvard MultiChrome!



Shade-adaptive composite for almost all tooth shades.



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 • – for durable restorations.

Harvard PremiumFill 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.

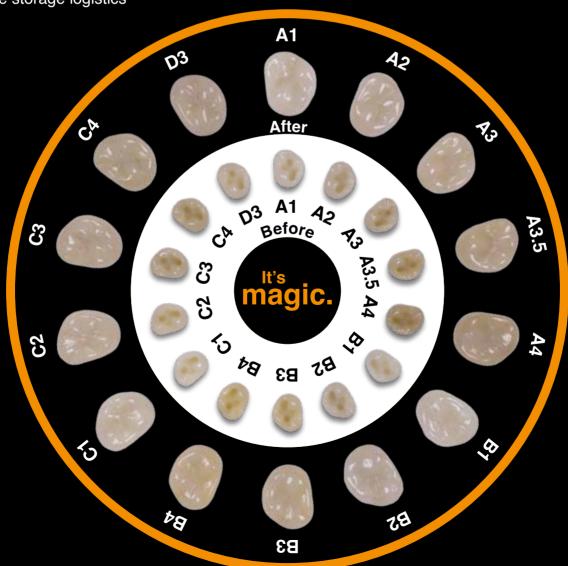
Find your Harvard Smile!

Multichrome It's magic.

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



Restoration

HARVARD

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, dentine 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	ſ
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

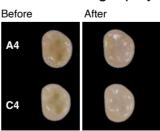
Optimal shade-adaptation for almost all tooth shades after light polymerization.



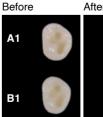
Posterior preparation A3



Posterior restoration with Harvard MultiChrome



E





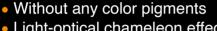
Teeth of different shades restored with Harvard MultiChrome

MultiChrome Flow

Perfect for small enamel restorations.



- Hyper-Nano technology, spherical fillers
- Shade-adaptive composite for almost all tooth shades





Restoration

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, dentine 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	7.000.000

with chameleon effect.

Optimal shade-adaptation for small enamel restorations.



Extended posterior fissure





Restoration with **Harvard MultiChrome Flow**

Restoration

Harvard **UltraFill**

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

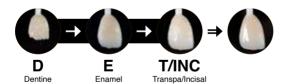
- Permanent high gloss
- Opalescence
- Tooth-like fluorescence
- Easy to work with
- Superior handling properties
- Low polymerization shrinkage
- High abrasion resistance
- Optimal physical properties
- Radiopaque



IntroKit S, 3 x 3 g

A2

Multi Opacity layering technique



- Multiple shades in various opacities
- Excellent permanent esthetics
- Chameleon effect

Universal Opacity easy technique



Harvard UltraFill

"Universal Opacity

A2

INC

A2

- Selected shades in one opacity
- In 80 % of clinical cases best compromise of opacity

Harvard UltraFill "Multi Opacity"	
Shade	3 g syringe
A1 E	7131111
A1 D	7121111
A2 E	7131112
A2 D	7121112
A3 E	7131113
A3 D	7121113
A3.5 E	7131114
A3.5 D	7121114
BL E	7131153
BL D	7121152
INC	7141160
т	7141170

A2 U 7111112 7111212 A3 U 7111113 7111213 A3.5 U 7111114 7111214	Shade	3 g syringe	20 x 0.25 g OptiTips®
A3 U 7111113 7111213 A3.5 U 7111114 7111214	A1 U	7111111	7111211
A3.5 U 7111114 7111214	A2 U	7111112	7111212
	A3 U	7111113	7111213
	A3.5 U	7111114	7111214
BL U 7111151	BL U	7111151	
	Harvard Applier C	OptiTips®	7095200

1

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

Closing a diastema



Andreas Kluschke MSc., Dentist Hamburg Smile, Hamburg, Germany

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



Before



After 6 month



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

Class IV incisor restoration 11:

>> For this demanding case I decided to use Harvard UltraFill. <<



Initial situation with incisor tooth fracture



Removal of the old composite, Silicone impression



A palatal shell was cast on as a basis for the restoration



Mamelons were prepared with dentine composite (90% opacity – Harvard UltraFill A1 D)



Final layer was applied to the mamelons with enamel opacity (80% opacity – Harvard UltraFill A1 E) and an incisal edge of Harvard UltraFill INC



After the 3D anatomical correction

Universal Opacity

Class V Restoration
>> Great high-gloss
result with Harvard
UltraFill Universal
Opacity <<

Andreas Kluschke MSc., Dentist Hamburg Smile, Hamburg, Germany



Before



After 6 month

Class I Restoration

>> Perfect marginal seal with Harvard UltraFill Universal Opacity. <<

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



Before



After

Restoration

Harvard UltraFill Flow

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

- Easy polishability, permanent high gloss
- Opalescence
- Optimal flow consitency
- 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		ſ
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	7095158
Refill bag with 50 needle tips	
Harvard Applier OptiTips®	7095200

Further shades are possible. Please contact us.



The experts' assessment

>> Easy and quick to polish, durable high gloss. <<



Tooth 14 and 15 Wedge-shaped defects



Class V restorations after high gloss polish



Andreas Kluschke MSc., Dentist Hamburg Smile, Hamburg, Germany

Restoration

PremiumFill[©]

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





Dual Opacity layering technique



Selected shades in two opacities

Harvard PremiumFill On "Dual Opacity"	 I
Shade	4 g syringe
A1 E	7082310
A2 E	7082311
A2 D	7082320
A3 E	7082312
A3.5 E	7082313
A3.5 D	7082321

Universal Opacity easy technique



• Selected shades in one opacity

Harvard PremiumFill "Universal Opacity"		í
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 , Universal Opacity" IntroKit S	7082500	
3 syringes ea. 4 g, A2 U , A3 U , A3.5 U		

Restoration

Harvard

PremiumFlow •

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



PremiumFlow •	~ 	ſ
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



What the experts say



Defective filling



Before



After removal etching and





Application of Harvard PremiumFlow •



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



Andreas Kluschke MSc., Dentist Hamburg Smile, Hamburg, Germany

Restoration

Harvard

Restore

Universal light cure microhybrid composite

- Suitable for anterior and posterior restorations
- Nice non-sticky consistency
- Low abraison
- 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	
System Kit Plus	7083217
4 syringes ea. 4 g, A1, A2, A3, A3.5 3 ml syringe Harvard RestoreFlow in the shade A2 5 ml bottle Harvard Self-Bond, 5 Appli-Pads, 50 Microbrush®, 5 needle tips	

Harvard

RestoreFlow

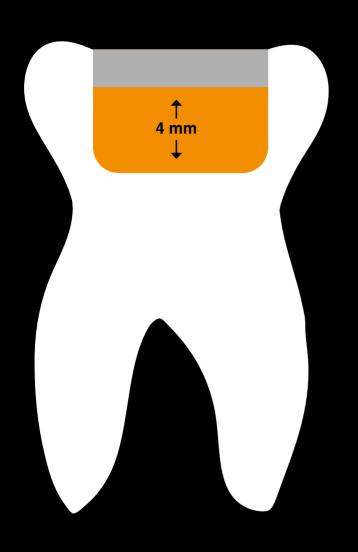
Universal flowable light cure microhybrid composite

- 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

Harvard NeedleTips H20	7091226
Refill bag with 50 needle tips	





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.



Finish the restoration as usual! Any composite can be used for the enamel restoration



Base in cavity up to 4 mm with Harvard IonoSphere Bulk Flow

Finalized restoration with your trusted moldable composite



Composite for Fillings Restoration

IonoSphere Bulk Flow



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



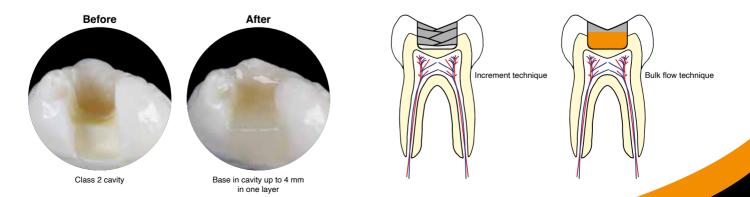


OptiNeedleTips 0.25 g

Harvard IonoSphere Bulk Flow	~	ſ
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

With bioceramic fillers for precise and fast bulk dentine filling.



Light cure adhesives at a glance Restoration

Not all adhesives are equal.



Strong connections: Easy to BOND!

Light Cure Adhesives

Restoration

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 dentine 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**.

Harvard InterLock® ONE	ı
Universal Adhesive 5 ml bottle	7083611
Microbrush®	7095156
Refill bag with 50 applicators	

Harvard InterLock® ONE SingleDose	1
Universal Adhesive 50 x 0.1 ml SingleDose	7083613*

^{*} No stock item, please contact the Harvard sales team.



5 ml





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



Harvard InterLock® ONE Self Cure Activator	•
Universal Adhesive 5 ml bottle	7083612

Light Cure Adhesives

Restoration

Harvard InterLock®

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

- Long-term and safe adhesion to enamel and dentine
- 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





Harvard

Bond SE Mono

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

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

Harvard Bond SE Mono	å
5 ml bottle	7083601
Microbrush®	7095156
Refill bag with 50 applicators	



5 m

Light Cure Adhesives

Restoration

Harvard Self-Bond

Self-etch, light cure bonding

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

Harvard Self-Bond	å
5 ml bottle	7083218



5 ml

Harvard

Bond TE Mono

Light cure one bottle adhesive for total-etch technique

- Strong bonding to enamel and dentine
- 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

Harvard Bond TE Mono	å
5 ml bottle	7083607



5 ml

Harvard **Etch**

Thixotropic etching gel for etching of enamel and dentine

- 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

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



Not all **Liners** are the same.

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®-Line

Bioactive resin-reinforced MTA protective liner



Harvard BioCal®-Line



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

Harvard BioCal®-Line	~—
1 g syringe, 12 needle tips	7081554
Harvard NeedleTips H20	7091226
Refill bag with 50 needle tips	







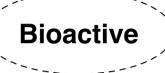
after application of an adhesive



Application of Harvard BioCal®-Line



cured after 40 seconds light curing

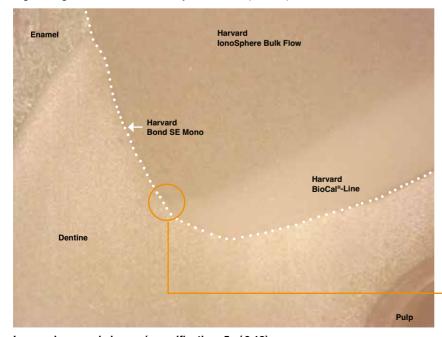




Technical data		
Flexual strength	76	MPa
Compressive strength	187	MPa
Calcium release (24 h)	204	μg / cm²
pH value (24 h)	11	

Harvard BioCal®-Line should used with a dentine adhesive, idealy with Harvard Bond SE Mono. Harvard Bond SE Mono does not restrict the bioactive effect. A continuous gap-free marginal seal and high alkaline bioactive MTA components protect pulp and dentine equally, especially in deep restorations.

High strength values and minimal layer thickness (≤ 1 mm) form the foundation for safe and reliable restorative therapy.



Laser microscopic image (magnification: 5x / 0.13)

Deep composite restoration close to the pulp Experimental Tooth. Preparation (cross section) after one-week storage in artificial saliva (37 °C / 98,6 °F / thermocycling)

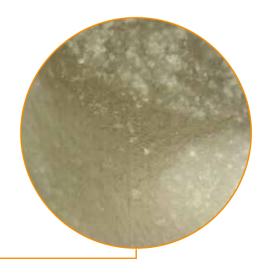


Image detail (magnification: 50x / 0.95) Interface: Dentine / Harvard IonoSphere Bulk Flow & Dentine / Harvard BioCal®-Line In between: Harvard Bond SE Mono



The experts' assessment

>> Maximum pulp protection with light-curing bioactive MTA liner in deep caries lesions. <<



Premolar after initial preparation



Cavity lining with **Harvard BioCal®-Line** after application of adhesive system



Full caries excavation



Composite restoration with Harvard UltraFill



Andreas Kluschke MSc., Dentist Hamburg Smile, Hamburg, Germany

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

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





Harvard

lonoLine

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

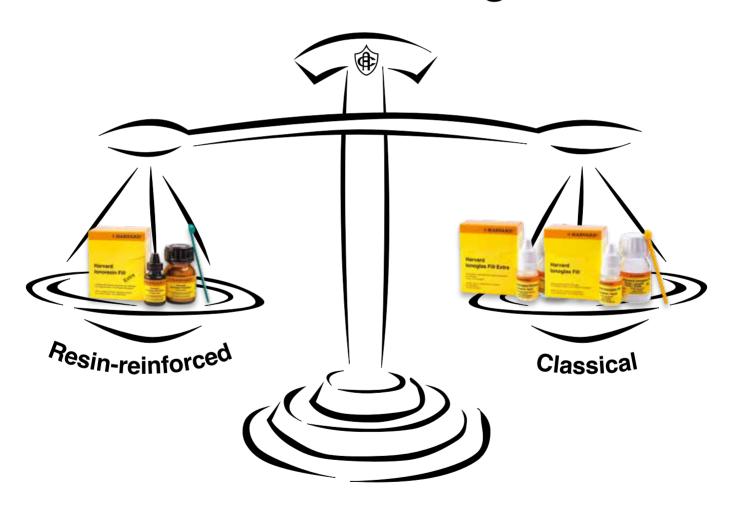
- Suitable as liner or base
- Fluoride release
- Perfectly flowing
- Radiopaque
- Good price / performance ratio

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



Always the right ChOiCe

when it comes to Filling Cements.



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.

Glass Ionomer Cements for Fillings

Restoration

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

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

* No stock item, please cont	act the Harvard sales team.

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

Harvard Applier OptiCaps® 7092000





Glass Ionomer Cements for Fillings

Restoration

HARVARD

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®



Harvard IonoGlas Fill Extra	48
15 g powder / 8 ml liquid, dosage spoon, mixing pad	
A2	7052112
A3	7052113

Harvard IonoGlas Fill Extra	~ ■
50 OptiCaps® ea. 0.5 g	
A2	7052252
A3	7052253
Harvard Applier OptiCaps®	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

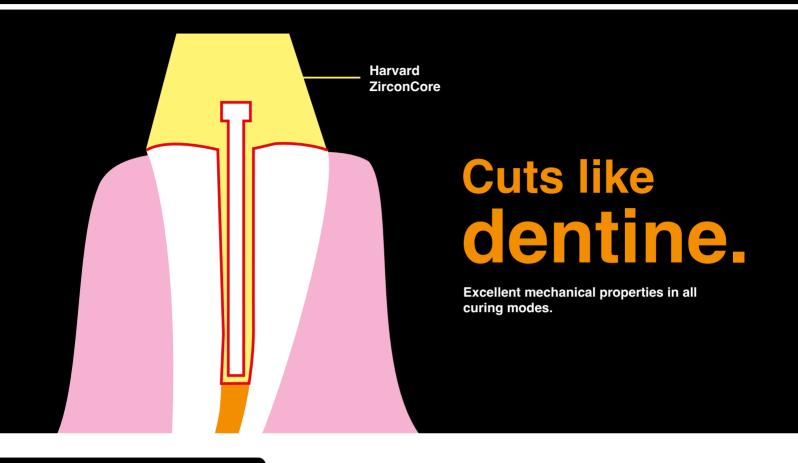
Harvard IonoGlas Fill	18
Dosage spoon, mixing pad	
10 g powder – A2 / 5.6 ml liquid	7051110*
15 g powder – A2 / 8 ml liquid	7051115
15 g powder – A3 / 8 ml liquid	7051116*
35 g powder – A2 / 20 ml liquid	7051120*

^{*} No stock item, please contact the Harvard sales team.



Core Build-up and Post Cementing

Restoration



The experts' assessment

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



Prepared and bonded root canal



Cured core build-up



Application into the root canal



Finished core build-up



Placing the root post



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

Core Build-up and Post Cementing

Restoration

Harvard

ZirconCore

Dual cure core build-up and post cementation composite

- Optimal consistency for two indications:
 Core build-up and post cementing
- "Cuts like dentine"
- 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



Harvard ZirconCore – A2	/
5 ml minimix syringe – A2, 10 mixing tips, 10 intra tips long	7083599
Harvard ZirconCore – A3	_
5 ml minimix syringe – A3, 10 mixing tips, 10 intra tips long	7083600
Harvard ZirconCore – 25 ml	—
25 ml automix cartridge – A3, 10 mixing tips, 10 intra tips	7083598*

^{*} No stock item, please contact the Harvard sales team.

Harvard Mini 1:1 O-Brown	7083610
Refill bag with 50 mixing tips	
Harvard IntraTips long	7083620
Refill bag with 50 intra tips long	
Harvard Auto 1:1 O-Yellow	7091300
Refill bag with 50 mixing tips	
Harvard IntraTips yellow	7083619
Refill bag with 50 intra tips	

Technical data Working time (23 °C / 73 °F) Setting time (self cure) Light cure (optional) Elasticity modulus (light cure resp. dual cure) Elasticity modulus (dark cure) 5,4 GPa

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 dentine
- Hydrophilic for wet bonding technique
- For use with dual cure composites e.g. Harvard ZirconCore
- Good price / performance ratio







2 x 5 ml



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.

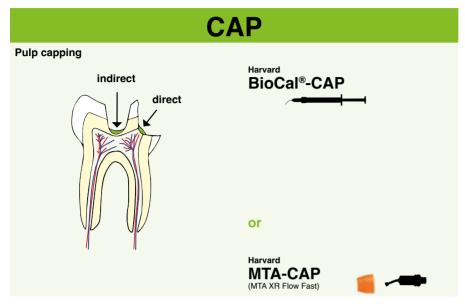
- CAP for direct and indirect pulp capping. Bioactive, light cure with resin-reinforced MTA cement or self cure with flowable MTA cement, in syringe or capsule. (Harvard BioCal®-CAP; Harvard MTA-CAP)
- PT bioactive materials with MTA fillers for the substitution of removed/partially removed pulp in capsule. (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 in capsule. (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)

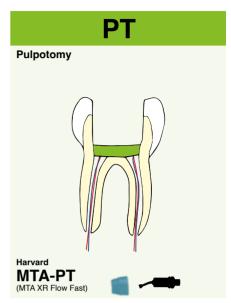
The Harvard MTA Universal cements for mixing or in the capsule are suitable for all endodontic indications.

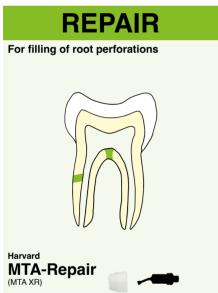
All Harvard MTA cements and BioCal® materials are also very well suited for the treatment of children.

Overview of all applications

Endodontics

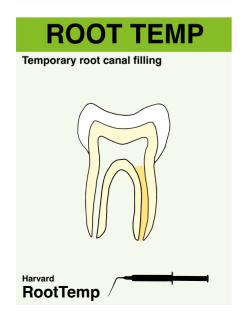


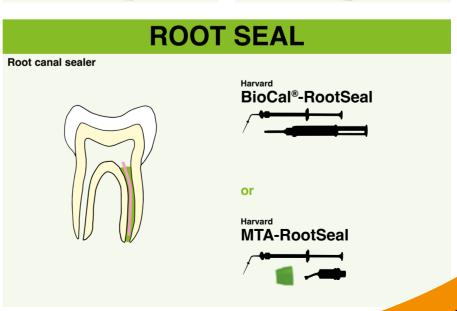












Pulp Protection – CAP

Endodontics

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 dentine
- Creates an environment hostile to bacteria
- Moisture tolerant
- Virtually no solubility
- Good Radiopacity
- Fast, after light cure, treatment can be continued immediately
- Thixotropic properties

Harvard BioCal®-CAP	·
1 g syringe, 12 needle tips	7081550
4 x 1 g syringe, 50 needle tips	7081551
Harvard NeedleTips H22	7095162
Refill bag with 50 needle tips	



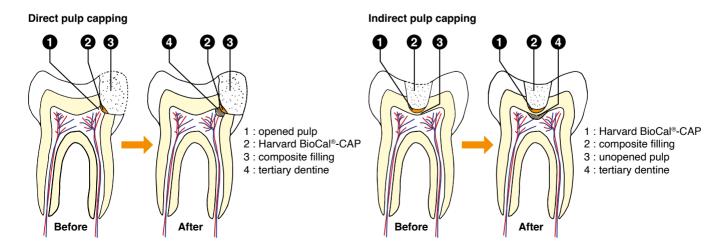
The experts' assessment

>> Harvard BioCal®-CAP revealed antimicrobial activity against S. mutans, which was related to its Ca/Si release and alkaline pH. <<

- Pedano De Piero. Mariano Simón (Department of Oral Health Sciences, BIOMAT, KU Leuven and University Hospitals (UZ Leuven), Belgium)
- Van Holm, Wannes (Department of Oral Health Sciences, Oral Microbiology, KU Leuven and University Hospitals (UZ Leuven), Belgium)
 Li, Xin (Department of Oral Health Sciences, BIOMAT, KU Leuven and University Hospitals (UZ Leuven), Belgium)
- Nedeljkovic, Ivana (Dental Materials Science, Academic Centre for Dentistry Amsterdam (ACTA), University of Amsterdam and Vrije Universiteit Amsterdam, Netherlands)
 Van Landuyt, Kirsten (Department of Oral Health Sciences, BIOMAT, KU Leuven and University Hospitals (UZ Leuven), Belgium)

 - Teughels, Wim (Department of Oral Health Sciences, Oral Microbiology, KU Leuven and University Hospitals (UZ Leuven), Belgium)
 Van Meerbeek, Bart (Department of Oral Health Sciences, BIOMAT, KU Leuven and University Hospitals (UZ Leuven), Belgium)

IADR Division: Meeting: 2021 Continental European and Scandinavian Divisions Meeting (Brussels, Belgium, Hybrid), Year: 2021, Final Presentation ID: 0058



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



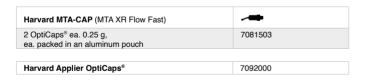
Harvard MTA-CAP

(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 of hydroxyapatite and tertiary dentine
- 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

Harvard CalciumHydroxide

Calcium hydroxide paste

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

Harvard CalciumHydroxide	~
2 ml syringe, 3 needle tips	7071261



Pulpotomy – PT

Endodontics

Harvard MTA-PT

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 dentine
- 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



Harvard MTA-PT	~ ■
2 OptiCaps® ea. 0.25 g, ea. packed in an aluminum pouch	7081512

Harvard Applier OptiCaps® 7092000		
	Harvard Applier OptiCaps®	7092000

The experts' assessment

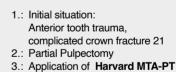
Clinical case with Harvard MTA-PT (MTA XR Flow Fast) Source: Thonemann/Federlin, University Regensburg, Germany

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





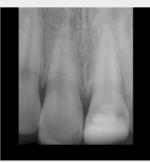




- 4.: Covering with glass ionomer cement
- 5.: 4 months after trauma: 21 vital
- 6.: 1 year after trauma: 21 vital









Prof. Dr. Marianne Federlin, University Regensburg, Germany

Root Canal MTA Universal

Endodontics

Harvard

MTA Universal OptiCaps®

Endodontic repair cement in capsules based on MTA

- Highly biocompatible material
- Excellent bond to dentine
- Radiopaque
- Firm and homogenous consistency directly from the capsule
- Forms tertiary dentine
- 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

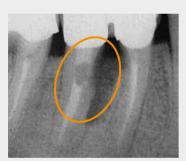
Set also in humid conditions

Harvard MTA Universal OptiCaps®	~ ■
2 OptiCaps® ea. 0.3 g, ea. packed in an aluminum pouch	7081502



Harvard Applier OptiCaps® 7092000

The experts' assessment



Initial situation: Damaged root canal wall and demineralized bone



After treatment:
Root canal perforation sealed with
Harvard MTA Universal



After one year:
Perfect seal of the application areas,
new remineralized bone and better
retention of the tooth

>> Due to MTA, good long term prognosis. <<



Oxana Hilfer, Dentist, Hamburg, Germany

MTA Universal HandMix

Endodontic repair cement based on MTA, as HandMix

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

Harvard MTA Universal HandMix	#8
1 g powder, 3 ml liquid, dosage spoon, mixing pad, spatula	7081507
2 g powder, 4 ml liquid, dosage spoon, mixing pad, spatula	7081508



Root Canal MTA Specialities

Endodontics



Root Canal MTA Specialities

Endodontics

Harvard **MTA-Repair**

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

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



Harvard

MTA-Ortho plus EndoDirect

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

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











Root Canal MTA Specialities

Endodontics

Harvard MTA-Retro

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

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



7092000 Harvard Applier OptiCaps®



Harvard MTA-Retro Fast setting, extra radiopaque MTA cement in capsules



Infected tooth 25

"Pain swollen on the upper left second premolar 25. From the diagnostic X-ray, a radiolucency around the tip of the root, clinical examination reveals movement of the tooth and an old root canal with post and core plus crown."

Perfect root end filling



First clinical image



First X-ray before treatment



X-ray after placement of Harvard



X-ray after 12 months

>> Harvard MTA Retro. The perfect material for this treatment. <<



Dr. med. Klaus Herrligkoffer, Dentist, Berlin, Germany

Root Canal-Preparation & -Dressing Endodontics

Harvard Glide & Clean

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 RootTemp

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



Harvard RootTemp	
2 ml syringe, 6 endo tips	7071264
Harvard Endo Tips	7083618
Refill bag with 25 endo tips	

Root Canal Sealers

Endodontics

Harvard BioCal®-RootSeal



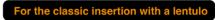
Bioactive, resin-modified MTA root canal sealer

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)

For perfect direct bubble-free insertion



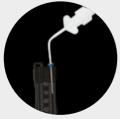




Harvard BioCal®-RootSeal plus EndoDirect	
4 g (2.5 ml) minimix syringe 10 EndoDirect syringes with flexible endo-tip 10 mixing tips (S-Brown)	7081552
Harvard BioCal®-RootSeal	
4 g (2.5 ml) minimix syringe 10 mixing tips (5 x S-Brown, 5 x O-Brown) 5 intra tips long, mixing pad	7081553

Harvard Mini 4:1 / 10:1 S-Brown	7093050
Refill bag with 50 mixing tips	
Harvard Mini 4:1 / 10:1 O-Brown	7091100
Refill bag with 50 mixing tips	
Harvard IntraTips long	7083620
Refill bag with 50 intra tips	

Application with the EndoDirect syringe:



Set of the working length with the endo stop



Transfer the required amount of Harvard BioCal®-RootSeal into the EndoDirect syringe

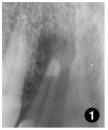


Injection of Harvard BioCal®-RootSeal into the root canal



Insertion of gutta-percha up to the working length into the root canal

The bioactive root canal sealer.







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

>> The bioactive success! <<



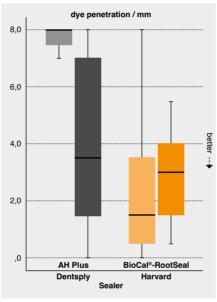
Dr. Hassan Salma, Dentist Mediclinic Al Noor Hospital, Abu Dhabi

Investigation of microleakage of bioactive root canal sealers.

University Erlangen, Germany. Kopecka M, Opperskalski L, Zorzin J, Petschelt A, Lohbauer U, Ebert J

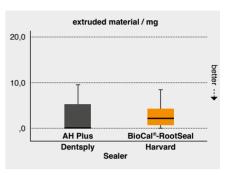
The aim of this study was to measure microleakage of this new sealer at two different time points (one week and 6 months) and to compare them with two well-established sealer materials.

Additionally, the amount of material pressed beyond the apex (overfilling) was measured.



Time: ■ ■ 1 week, ■ ■ 6 month

Dye penetration regarding different sealers and time points.



Amount of filling material pressed beyond the apex regarding different sealers.

Conclusion

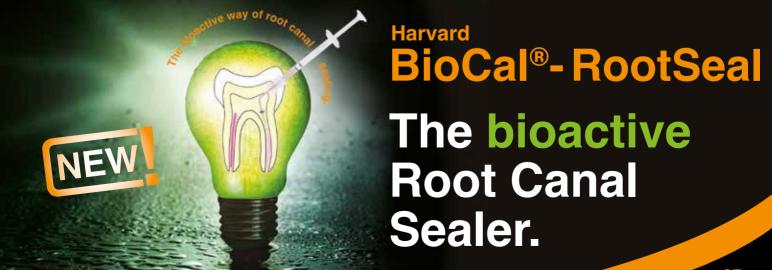
The new materials under investigation showed less leakage and slightly less material overfilling than the well-established material AH Plus that was used for comparison.

Thus, regarding the parameters tested, both new material Harvard BioCal®-RootSeal can be recommended for clinical use.



PD Dr. Johannes Ebert, Universität Erlangen, Germany

HARVARD®



Root Canal Sealers

Endodontics

Harvard MTA-RootSeal



Bioactive MTA root canal sealer in capsules

- 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
- Optional with EndoDirect syringe: direct application into the root canal
- Mixing time: 30 sec
- Working time: > 10:00 min (from start of mixing at 23 °C (73 °F))
- Next clinical step: after 60:00 min

Set also in humid conditions





2 x 0.25 g

Optional: The EndoDirect Syringe for perfect application.



Angled needle tip with individual working length



Filling the EndoDirect syringe



Insertion of the plunger into the EndoDirect syringe



Application of the material into the root canal

Click before you mix. Instructions for activating and mixing Harvard OptiCaps®.



OptiCaps® before activation



the end into the OptiCaps®

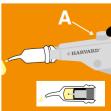


Insert the OptiCaps® into the on a hard and plane surface to Harvard Applier OptiCaps® and click once to standardize





Insert the OptiCaps® into the Harvard Applier OptiCaps®. remove the pin from the nozzle



a glass plate or apply directly, unlock the gun and remove the capsule

Investigation of microleakage of bioactive root canal sealers.

University Erlangen, Germany. Kopecka M, Opperskalski L, Zorzin J, Petschelt A, Lohbauer U, Ebert J

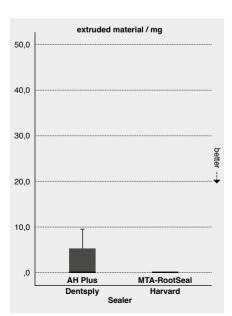
The aim of this study was to measure microleakage of this new sealer at two different time points (one week and 6 months) and to compare them with two well-established sealer materials. Additionally, the amount of material pressed beyond the apex (overfilling) was measured.

Excerpt from the study Erlangen, Germany

dye penetration / mm 8,0 4,0 4,0 2,0 AH Plus MTA-RootSeal Dentsply Harvard Sealer

Time: ■■1 week, ■■6 month

Dye penetration regarding different sealers and time points.



Amount of filling material pressed beyond the apex regarding different sealers.

Conclusion

The new materials under investigation showed less leakage and slightly less material overfilling than the well-established material AH Plus that was used for comparison. Thus, regarding the parameters tested, both new material Harvard MTA-RootSeal can be recommended for clinical use.

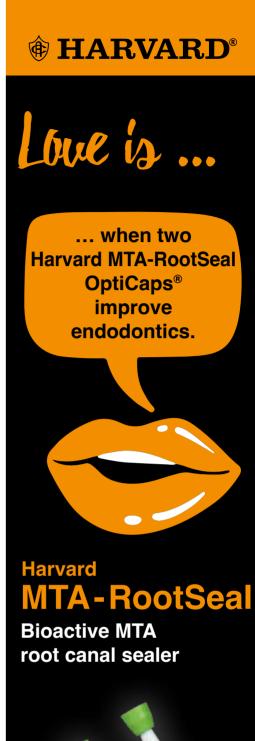
>> Harvard MTA-RootSeal is the first choice for me. <<



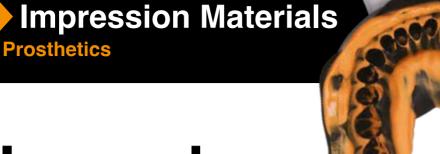
Harvard MTA-RootSeal is a pure MTA, easy to use, hydrophilic, has a very good consistency and offers a very good adaptation and sealing of the root canal wall. Further advantages are: a high pH value (antibacterial effect) biocompatibility, fast setting time, no postoperative pain and easy revisability.



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



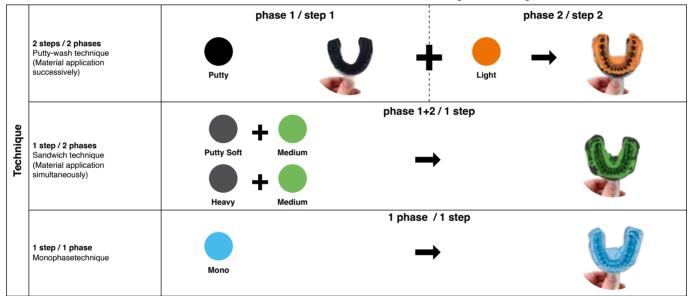




Harvard SuperSnap®

Superhydrophilic vinyl polysiloxane impression material with SuperSnap property

The recommended combinations of Harvard SuperSnap®:



HARVARD®



Impression Materials

Working time

Quick Snap

Prosthetics

Intra oral setting time

380 ml

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 r	ml,12 mixing tips 1:1,	4 IntraTip	s 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 SuperSnap® Quick Snap	Color			
2 automix cartridges ea. 50 i	ml,12 mixing tips	1:1, 4 IntraTip	s 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 Auto-T 1:1 O-Yellow	7098000
Refill bag with 50 mixing tips for Light, Medium – Regular / Quick	
Harvard Auto-T 1:1 O-Green	7098010
Refill bag with 50 mixing tips for Heavy – Regular / Quick	
Harvard Auto-T 1:1 O-Pink	7098020
Refill bag with 50 mixing tips for Mono – Regular / Quick	
Harvard IntraTips yellow	7083619
Refill bag with 50 mixing tips for Light, Medium – Regular / Quick	
Harvard Maxi 5:1 Dynamic	7091400
Refill bag with 50 dynamic mixers and 2 bayonet rings for Putty Soft MaxiMix Putty Soft MaxiMix Heavy – Regular / Quick MaxiMix	
Harvard Dispenser Automix 1:1	7095100



Harvard PremiumSil

Superhydrophilic vinyl polysiloxane impression material

The recommended combinations of Harvard PremiumSil:

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

Impression Materials

Prosthetics

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 IntraTip	os yellow
Light	orange	~	7083701
Medium	bright green	~	7083711
4 automix cartridges ea. 50 ml			
Light	orange	~	7083703*
2 automix cartridges ea. 50 ml, 12 mixing tips 1:1			
Heavy	bright purple	_	7083731
2 jars ea. 600 g, 2 spoons			
Putty	dark purple		7083751
Putty Soft	purple		7083741
MaxiMix cartridge, 380 ml, 10 dynamic mixers, 1 bajonet ring			
Putty Soft	purple	-=	7083740

Harvard PremiumSil Fast Set	Color		
2 automix cartridges ea. 50 r	nl, 12 mixing tips 1:	1, 4 IntraTip	os yellow
Light Fast	orange	~	7083702
Medium Fast	bright green	~	7083712
4 automix cartridges ea. 50 r	nl		
Light Fast	orange	~	7083704*
2 automix cartridges ea. 50 ml, 12 mixing tips 1:1			
Heavy Fast	bright purple	_	7083732
2 jars ea. 600 g, 2 spoons			
Putty Fast	dark purple		7083752
Putty Soft Fast	purple		7083742
MaxiMix cartridge, 380 ml, 10 dynamic mixers, 1 bajonet ring			
Heavy Fast	bright purple	-=	7083733

Auto 1:1 O-Yellow Auto 1:1 O-Pink Auto 1:1 O-Green

Harvard Auto 1:1 O-Green	7096000
Refill bag with 50 mixing tips for Harvard PremiumSil Heavy / Heavy Fast	, 00000
Harvard Auto 1:1 O-Pink	7091200
Refill bag with 50 mixing tips for Harvard PremiumSil Mono / Mono Fast	
Harvard Auto 1:1 O-Yellow	7091300
Refill bag with 50 mixing tips for Harvard PremiumSil Light / Light Fast Harvard PremiumSil Medium / Medium Fast	
Harvard IntraTips yellow	7083619
Refill bag with 50 mixing tips for Harvard PremiumSil Light / Light Fast Harvard PremiumSil Medium / Medium Fast	
Harvard Maxi 5:1 Dynamic	7091400
Refill bag with 50 dynamic mixers and 2 bajonet rings for Harvard PremiumSil Putty Soft MaxiMix Harvard PremiumSil Heavy Fast MaxiMix	
Harvard Dispenser Automix 1:1	7095100

Harvard **TraySive**

Conventional tray adhesive for silicones

- Tray adhesive for all silicone impression materials
- Tacky bond between impression tray and A-silicone

Harvard TraySive	i
10 ml bottle	7083753



^{*} No stock item, please contact the Harvard sales team.

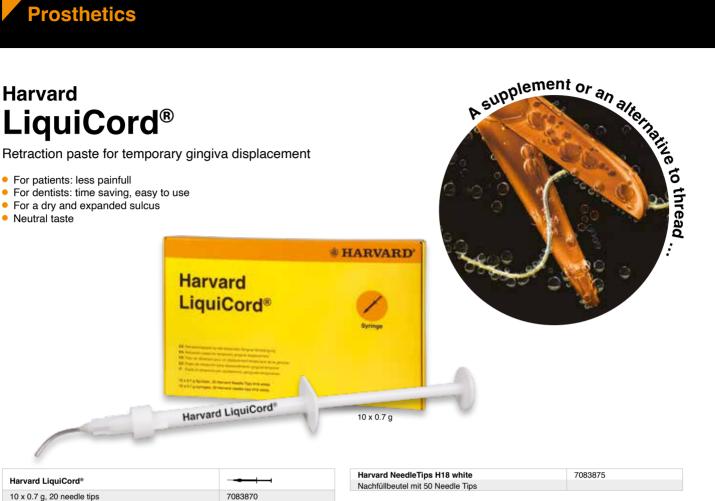
Retraction Material

Prosthetics

Harvard LiquiCord®

Retraction paste for temporary gingiva displacement

- Neutral taste

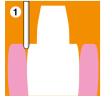


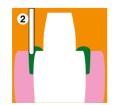
Application of Harvard LiquiCord® ...

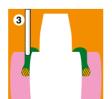
... for accurate impressions the gingiva retraction is very important: after a tooth preparation the gingival sulcus normally is filled with saliva, blood or other liquids and therefore not accessible for the impression material. This requires effective retraction with Harvard LiquiCord®. It temporarily displaces the gingiva and keeps the sulcus dry and protected. In addition Harvard LiquiCord® has a hemostatic effect.

Harvard LiquiCord® can be used for all indications of temporary displacement of the marginal gingiva and to provide a dry and expanded sulcus:

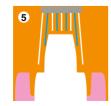
- For digital impressions
- For conventional impressions











- Impressions for restaurations (temporary and permanent)
- Preparations of class II and V
- 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
- 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

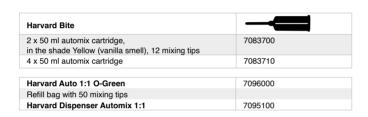
Bite Registration Material

Prosthetics

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





The experts' assessment



Intraoral application of Harvard Bite: optimal consistency



Only 45 seconds cure



Excellent reproduction of the bite situation



Bite registration



Precise trimming and grindability



Kay Zischow, Zischow Dental Hamburg GmbH, Germany

>> 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.

Temporary Crown & Bridge Materials

Prosthetics

Harvard TEMP C&B Ultra



Semi-permanent crown and bridge material, ratio 10:1

- Highgloss polishability
- High flexural strength
- Reduced smear layer
- High color stability
- Excellent estheticRatio 10:1





Harvard TEMP C&B Ultra	_
50 ml automix cartridge 10:1, 10 mixing tips	
A2	7081662
A3	7081663

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



Highgloss polishability

The natural fluorescence and very good polishability ensure perfect semi-permanent esthetic results.



Temporary Crown & Bridge Materials

Prosthetics

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



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	

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



Harvard TEMP Glaze LC	i
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

Harvard Dispenser Automix 4:1 / 10:1

- Natural esthetics and fluorescence
- Color stability
- Good price / performance ratio



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

Temporary Luting Cements

Prosthetics

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

The experts' assessment

>> Harvard TEMP Cem save precious working time and make patients feel satisfied. <<



Preparation



Crown fixation with Harvard TEMP Cem



Removal of excess material



Temporary



Oxana Hilfer, Dentist, Hamburg, Germany

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.

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



Temporary Luting Cements

Prosthetics

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	
3.4.	

Semi-permanent Luting Cement

Prosthetics

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	

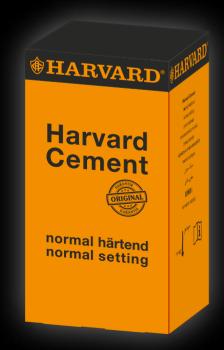


Love is ...

... when you don't notice how fast time flies.



Cement
The Original.
Since 1892.



It all started

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 ...





Harvard Cements

Prosthetics

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)







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

Harvard Cement OptiCaps® ea. packed in an aluminum pouch	
10 OptiCaps® ea. 0.5 g, Shade 3 - Yellowish white	7081310
50 OptiCaps® ea. 0.5 g, Shade 3 - Yellowish white	7081350
Harvard Applier OptiCaps®	7092000

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

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)

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



Liquid	İ	Single liquid 15 ml	Clinic liquid 40 ml	
		7031600	7031300	

Glass Ionomer Cements for Luting

Prosthetics

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)		7061116	
15 g powder – Universal / 10 ml liquid dosage spoon, mixing pad	18		

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 37)
- HandMix
- Good price / performance ratio

Harvard IonoResin Cem (LC)		7041216*	
15 g powder – Universal / 10 ml liquid dosage spoon, mixing pad	# 8		





Glass Ionomer Cements for Luting Prosthetics

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 dentine
- High fluoride release
- Biocompatible
- HandMix or OptiCaps®





HARVARD

Harvard IonoGlas Cem Extra	
15 g powder – Universal / 10 ml liquid dosage spoon, mixing pad	



7042115

50 OptiCaps® ea. 0.4 g – Universal	7042250
Harvard Applier OptiCaps®	7092000



Harvard IonoGlas Cem

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

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

Harvard IonoGlas Cem			
Dosierlöffel	48		
15 g powder - Universal / 10 ml liquid		7041115	
35 g powder – White / 20 ml liquid		7041130*	
35 g powder - Universal / 20 ml liquid		7041135	

^{*} No stock item, please contact the Harvard sales team.



Harvard Veneercem





Shade-adaptive light cure veneer composite cement.

- Precise application
- Superior handling properties
- Excellent physical properties
- Simple storage logistics

Permanent Luting Cements

Prosthetics

Harvard LuteCem SE

Self-adhesive dual cure resin-modified luting cement

- Suitable for:
 - Luting of posts made of ceramics, metal, fiber-reinforced materials
 - 2. Luting of crowns and bridges made of ceramics, zirconia, composites and metal
- Dual cure
- Fluoride release



Harvard LuteCem SE	-
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
White opaque	7081107*

Harvard Mini 4:1 / 10:1 S-Brown	7093050
Refill bag with 50 mixing tips	
Harvard Mini 4:1 / 10:1 O-Brown	7091100
Refill bag with 50 mixing tips	
Harvard IntraTips long	7083620
Refill bag with 50 intra tips	

VeneerCem

Shade-adaptive, light cure composite cement for the cementation of translucent veneers

- Shade-adaptive for a good adaption to the existing restoration
- Precise application
- Easy excess removal
- Permanent result
- Very high polishability
- Natural fluorescence
- No try-in paste required (time saving)
- High color stability



Harvard VeneerCem	~
2 x 1 ml syringe, incl. 8 needle tips H18	7100020

Harvard NeedleTips H18	7095158
Refill bag with 50 needle tips	

Precise application

^{*} No stock item, please contact the Harvard sales team.

Transparent Matrix Material

Prosthetics

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

Harvard TransMatrix	7083798
2 x 50 ml automix cartridge, shade transparent, 12 mixing tips	



Harvard Auto 1:1 O-Green	7096000
Refill bag with 50 mixing tips	
Harvard Dispenser Automix 1:1	7095100

The experts' assessment















- Initial situation
- Application of Harvard TransMatrix to the surface to be prepared and adjacent teeth
- Fast curing time (1:20 min intraorally)
- 4: Complete matrix
- Preparation with enamel chamfer
- Etching of the prepared surface with Harvard Etch
- 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 strip
- 12: Finished direct composite restoration







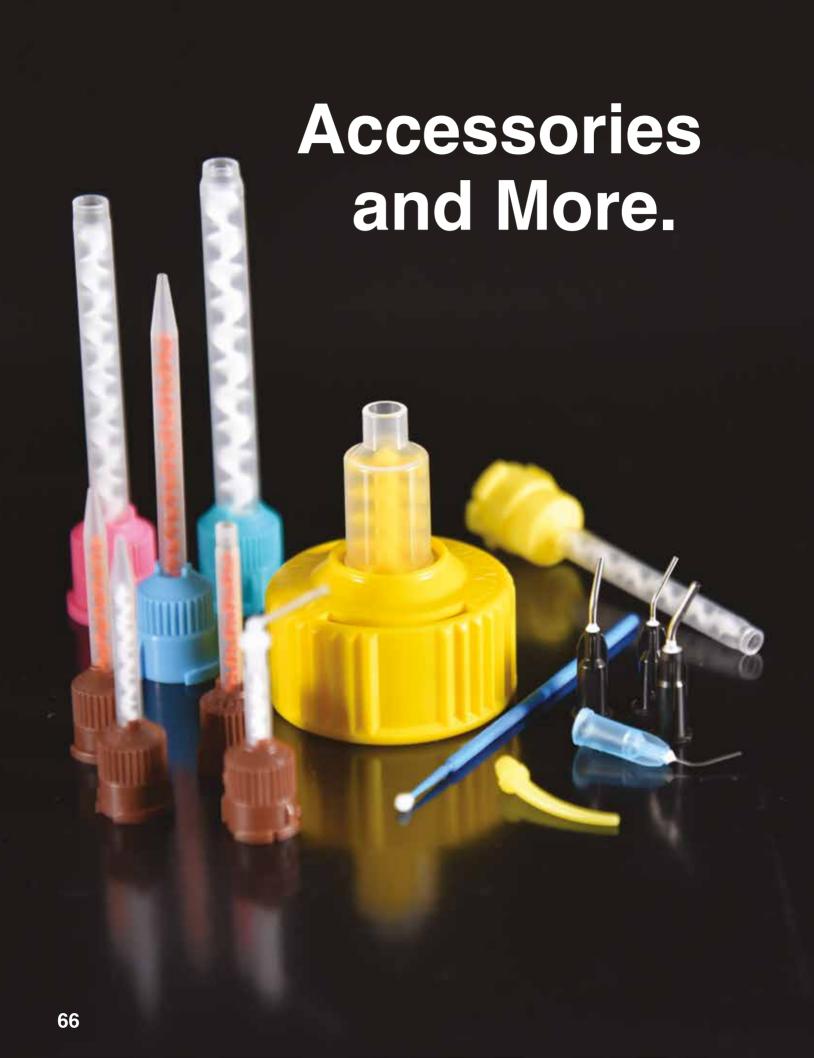


Amir Ibrik D.D.S. N.D.B. E.R.B. MSc

>> Easy application of Harvard TransMatrix. <<

With this selection you can relax lean back.





Accessories

Miscellaneous

with 50 needle tips for Harvard MultiChrome Flow, Harvard UltraFill Flow, Harvard PremiumFlow ^o , Harvard IonoSphere Bulk Flow, Harvard CalciumHydroxide LC Harvard NeedleTips H18 white with 50 needle tips for Harvard LiquiCord® Harvard NeedleTips H20 with 50 needle tips for Harvard IonoLine, Harvard RestoreFlow, Harvard BioCal®-Line Harvard NeedleTips H22 with 50 needle tips for Harvard BioCal®-CAP Harvard NeedleTips H25 with 50 needle tips for Harvard BioCal®-CAP Harvard NeedleTips H25 with 50 needle tips for Harvard Etch	7083875 7091226
with 50 needle tips for Harvard LiquiCord® Harvard NeedleTips H20 with 50 needle tips for Harvard IonoLine, Harvard RestoreFlow, Harvard BioCal®-Line Harvard NeedleTips H22 with 50 needle tips for Harvard BioCal®-CAP Harvard NeedleTips H25 with 50 needle tips for Harvard Etch	
Harvard NeedleTips H20 with 50 needle tips for Harvard IonoLine, Harvard RestoreFlow, Harvard BioCal®-Line Harvard NeedleTips H22 with 50 needle tips for Harvard BioCal®-CAP Harvard NeedleTips H25 with 50 needle tips for Harvard Etch	7091226
with 50 needle tips for Harvard IonoLine, Harvard RestoreFlow, Harvard BioCal®-Line Harvard NeedleTips H22 with 50 needle tips for Harvard BioCal®-CAP Harvard NeedleTips H25 with 50 needle tips for Harvard Etch	7091226
Harvard NeedleTips H22 with 50 needle tips for Harvard BioCal®-CAP Harvard NeedleTips H25 with 50 needle tips for Harvard Etch	
with 50 needle tips for Harvard BioCal®-CAP Harvard NeedleTips H25 with 50 needle tips for Harvard Etch	
Harvard NeedleTips H25 with 50 needle tips for Harvard Etch	7095162
with 50 needle tips for Harvard Etch	
·	7095126
Harvard Microbrush®	7095156
with 50 applicators for Harvard InterLock® ONE, Harvard InterLock®, Harvard Bond SE Mono, Harvard Restore System Kit, Harvard Bond SE Dual	
Harvard Auto-T 1:1 O-Yellow	7098000
with 50 mixing tips for SuperSnap® Light, Medium, Regular / Quick	=000010
Harvard Auto-T 1:1 O-Green	7098010
with 50 mixing tips for SuperSnap® Heavy Regular / Quick	7000000
Harvard Auto-T 1:1 O-Pink	7098020
with 50 mixing tips for SuperSnap® Mono, Regular / Quick	7083619
Harvard IntraTips yellow with 50 intra tips for Harvard PremiumSil Light, SuperSnap®,	7000019
Light Fast, Medium, Medium Fast, Harvard ZirconCore 25 ml	
Harvard IntraTips long	7083620
with 50 intra tips long for Harvard Core, Harvard ZirconCore, Harvard LuteCem SE,	
Harvard BioCal®-RootSeal, Harvard BioCal®-Cem	
Harvard Mini 1:1 O-Brown	7083610
with 50 mixing tips for Harvard Core, Harvard ZirconCore	
Harvard Mini 4:1 / 10:1 O-Brown	7091100
with 50 mixing tips for Harvard LuteCem SE, Harvard BioCal®-RootSeal, Harvard BioCal®-Cem	
Harvard Mini 4:1 / 10:1 S-Brown	7093050
with 50 mixing tips for Harvard LuteCem SE, Harvard Implant Semi-permanent, Harvard BioCal®-RootSeal plus EndoDirect, Harvard BioCal®-RootSeal, Harvard BioCal®-Cem	
Harvard Mini 1:1 S-Brown	7091050
with 50 mixing tips for Harvard TEMP Cem Esthetic, Harvard TEMP Cem	
Harvard Auto 4:1 / 10:1 S-Blue	7094000
with 50 mixing tips for Harvard TEMP C&B, Harvard TEMP C&B Pro	
Harvard Auto 1:1 O-Green	7096000
with 50 mixing tips for Harvard Bite, Harvard TransMatrix, Harvard PremiumSil Heavy / Heavy Fast	
Harvard Auto 1:1 O-Pink	7091200
with 50 mixing tips for Harvard PremiumSil Mono / Mono Fast	
Harvard Auto 1:1 O-Yellow	7091300
with 50 mixing tips for Harvard PremiumSil Light / Light Fast, Harvard PremiumSil Medium / Medium Fast, Harvard ZirconCore 25 ml	
Harvard Maxi 5:1 Dynamic	7091400
with 50 dynamic mixers and 2 bayonet rings for Harvard PremiumSil and Harvard SuperSnap®, Putty Soft MaxiMix, Heavy Fast MaxiMix	
Harvard Endo Tips	7083618
with 25 endo tips for Harvard RootTemp	
Harvard Applier OptiCaps®	7092000
for all OptiCaps®	
Harvard Applier OptiTips®	7095200
for all OptiTips® and ComforTips®s	
Harvard Dispenser Automix 4:1 / 10:1	7095000
for Harvard TEMP C&B, Harvard TEMP C&B Pro	
Harvard Dispenser Automix 1:1	7095100
for Harvard Bite, Harvard TransMatrix, Harvard PremiumSil and Harvard SuperSnap®, Light / Light Fast, Medium / Medium Fast, Heavy / Heavy Fast, Mono / Mono Fast	
Harvard Dispenser Automix 1:1/2:1	7095600
for Harvard ZirconCore 25 ml	7093000







7095200













Mixing Advices

Miscellaneous



For Harvard Cement



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



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



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



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



Draw 1/4 into the mixture.



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



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



Use the entire surface of glass plate.



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).

Activating and mixing OptiCaps®

Miscellaneous

"Click before you mix!"

Remove capsule (OptiCaps®) from the pouch



1. OptiCaps® before activation.

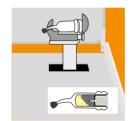


2. For activation of the OptiCaps® press the plunger on a hard and plane surface to the end into the OptiCaps®.



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

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

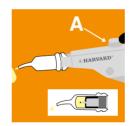


4. Insert the OptiCaps® into a mixer, close lid and mix immediately for the period mentioned in the instructions for use (with about 4300 oscillations / min).



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	60:00 min
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)

For your Notes Miscellaneous



Much more than than tolk expect.

Harvard Distribution Partner.

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