HARVARD®

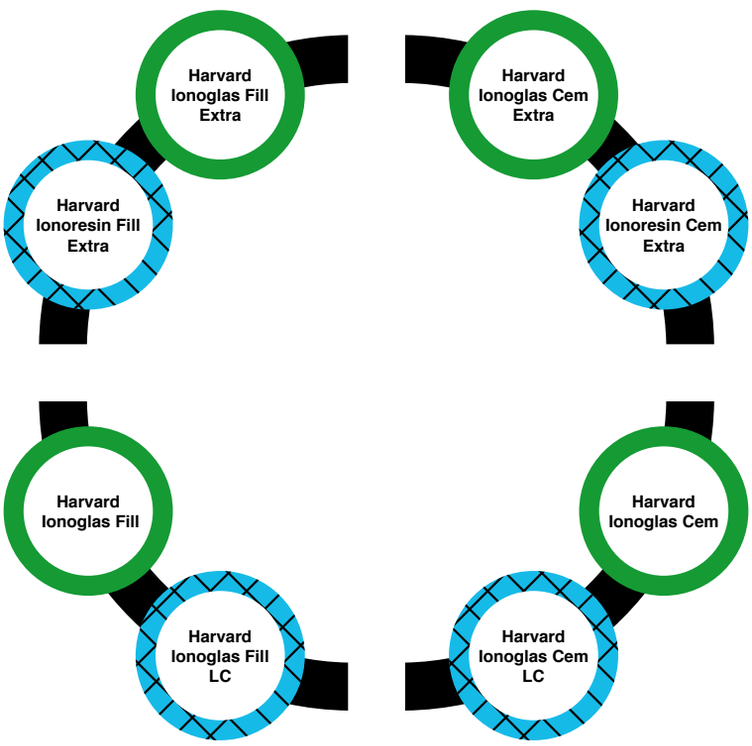
The world of glass ionomer cements.

Made in Germany

EN

Harvard Glass Ionomer Cement for:

Fillings & Lutings.



Harvard <u>conventional</u> glass ionomer cement

- Bond to dentine and enamel, no shrinkage, good marginal fit and sealing
- Fast and easy to use, whithout bonding and etching
- High fluoride release
- Contains no methacrylates
- Ideal for patients are allergic to methacrylates
- Ideal for deciduous teeth

Harvard <u>resin-reinforced</u> glass ionomer cement

- Fast, efficient and comfortable
- Excellent marginal fit and sealing
- Time savings in terms of use light cure
- Good aesthetic and good polishability
- Fluoride release
- Moisture tolerant
- Excellent bonding to composites
- Ideal for deciduous teeth
- Practically insoluble

For comfortable glass ionomer fillings.

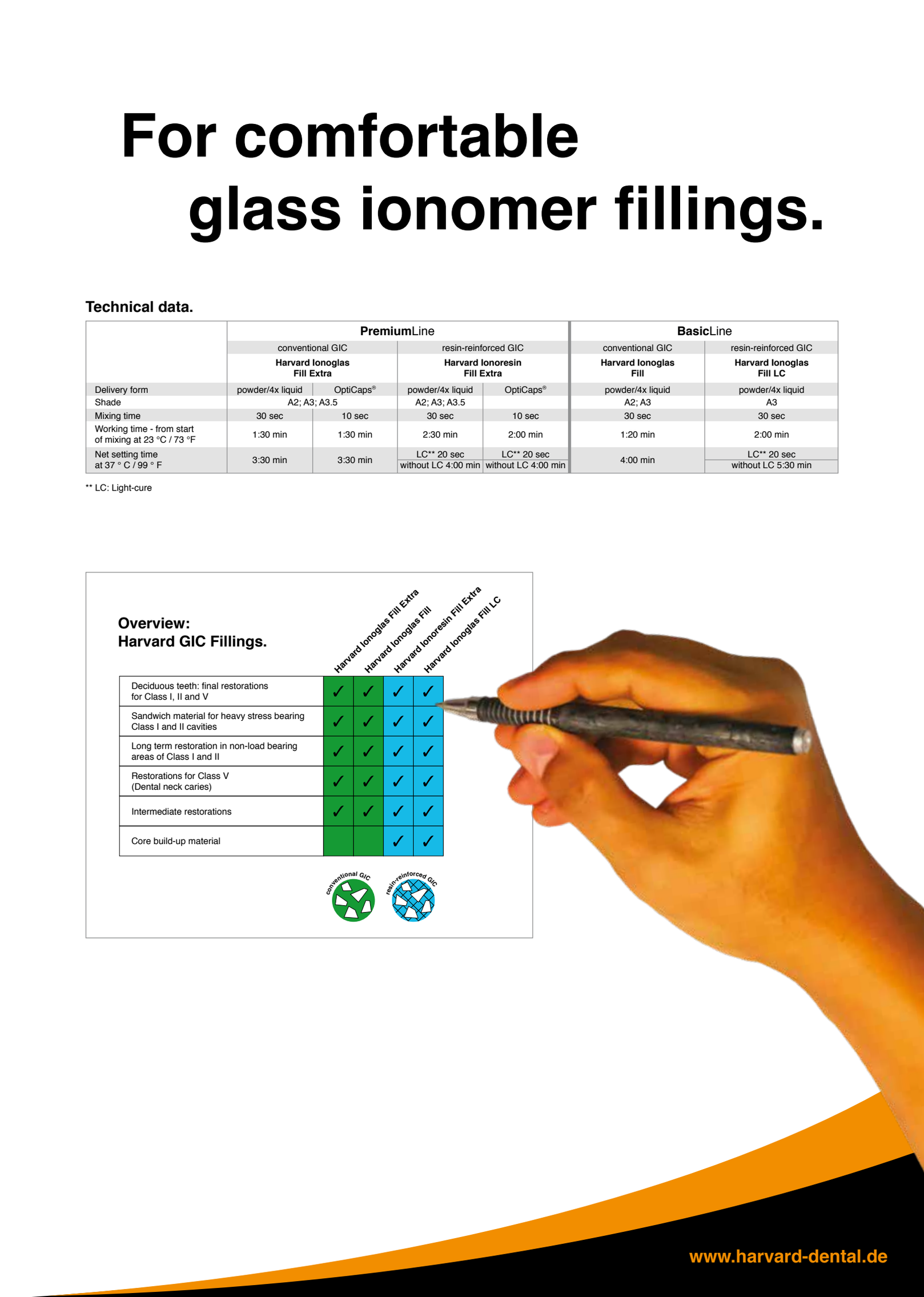
Technical data.

	PremiumLine				**Basic**Line	
	conventional GIC		resin-reinforced GIC		conventional GIC	resin-reinforced GIC
	Harvard Ionoglas Fill Extra		**Harvard Ionoresin Fill Extra**		**Harvard Ionoglas Fill**	**Harvard Ionoglas Fill LC**
Delivery form	powder/4x liquid	OptiCaps®	powder/4x liquid	OptiCaps®	powder/4x liquid	powder/4x liquid
Shade	A2; A3; A3.5		A2; A3; A3.5		A2; A3	A3
Mixing time	30 sec	10 sec	30 sec	10 sec	30 sec	30 sec
Working time - from start of mixing at 23 °C / 73 °F	1:30 min	1:30 min	2:30 min	2:00 min	1:20 min	2:00 min
Net setting time at 37 ° C / 99 ° F	3:30 min	3:30 min	LC** 20 sec without LC 4:00 min	LC** 20 sec without LC 4:00 min	4:00 min	LC** 20 sec without LC 5:30 min

** LC: Light-cure

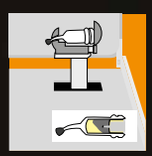
Overview: Harvard GIC Fillings.

	Harvard Ionoglas Fill Extra	Harvard Ionoglas Fill	Harvard Ionoresin Fill Extra	Harvard Ionoglas Fill LC
Deciduous teeth: final restorations for Class I, II and V	✓	✓	✓	✓
Sandwich material for heavy stress bearing Class I and II cavities	✓	✓	✓	✓
Long term restoration in non-load bearing areas of Class I and II	✓	✓	✓	✓
Restorations for Class V (Dental neck caries)	✓	✓	✓	✓
Intermediate restorations	✓	✓	✓	✓
Core build-up material			✓	✓



Conventional meets aesthetics.

The long-term fluoride release is very high. This reduces the risk of secondary caries at the interface of tooth and filling.



HARVARD

Harvard Ionoglas Fill Extra

Pulver / powder

Farbe / shade A2

Festigkeitsoptimierter Glasionomerzement

für Füllungen

Strength improved restorative glass ionomer cement

Premium

PremiumLine

Harvard Ionoglas Fill Extra

conventional GIC

Self cure conventional aesthetic glass ionomer cement for fillings.

Harvard‘s resin-free filling solution is used in particular for allergic patients and has been valued by customers worldwide for many years. **Harvard Ionoglas Fill Extra** is also ideal for deciduous tooth restorations. It also has sufficient mechanical strength.

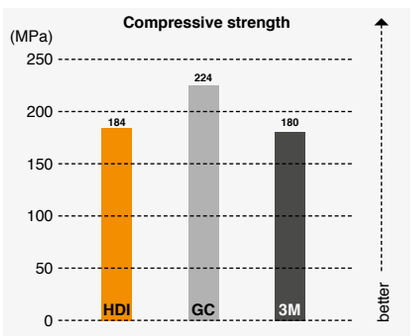
Available as powder / liquid and OptiCaps®. Available shades A2, A3 and A3.5.
Order information on last page.

Properties and advantages

- Natural translucency and aesthetics
- Convenient to apply and easy to handle
- Easy finishing
- Low solubility
- High fluoride release and radiopaque

Indications

- Deciduous teeth: final restoration for Class I, II und V (according to Black)
- Long term restorations in non-load bearing areas of Class I and II
- Restorations for Class IV and V

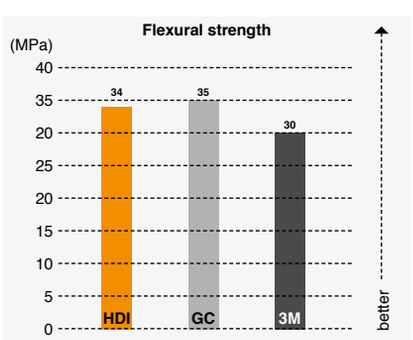


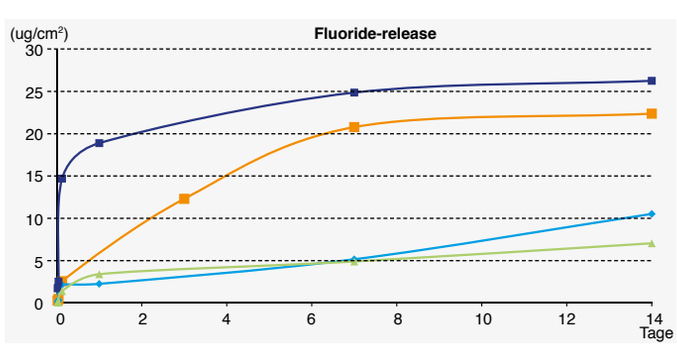
HDI Harvard Ionoglas Fill Extra
GC GC FUJI IX GP Handmix
3M 3M Ketac Fil Plus Handmix

Practice Test: Harvard Ionoglas Fill.


Prepared cavity


Finished filling





- Harvard Ionoglas Fill Extra
- GC FUJI IX GP
- GC FUJI IX GP EXTRA
- 3M Ketac Fil Plus Aplicap

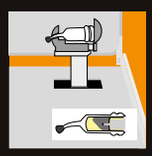
BasicLine

Harvard Ionoglas Fill
Self-cure conventional glass ionomer cement for fillings.

- Treatment completed after 6:00 minutes
- Good molding
- Good marginal fit and seal
- Easy to mix and to use

Discover the resin modified EXTRA.

No need of primer, conditioner or coating.



HARVARD

Harvard Ionoresin Fill Extra

Pulver / powder

Harvard Ionoresin Fill A2 Extra 71806446

Premium

PremiumLine

Harvard Ionoresin Fill Extra

resin-reinforced GIC

Aesthetic light and self cure resin-reinforced glass ionomer cement for fillings.

This resin-reinforced glass ionomer cement combines excellent mechanical properties with fine fillers. Good polishability, almost like composites. Finally, no varnish is required. Large fillings can be done in just two steps. Light cure and self cure.

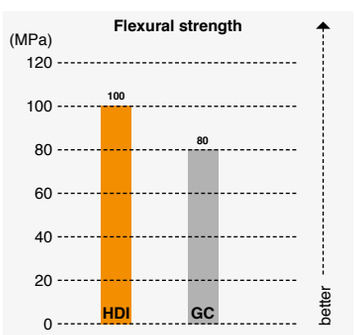
Available as powder / liquid and OptiCaps®.
Available shades A2, A3 and A3.5.
Order information on last page.

Properties and advantages

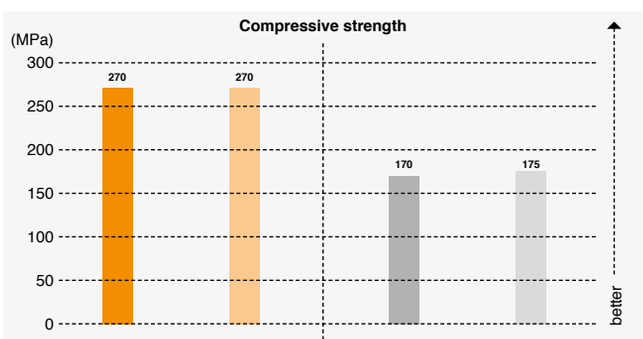
- Fine fillers
- Good polishability, almost like composites
- No mandatory of additional bonding and surface sealing
- High mechanical properties, virtually no shrinkage
- Practically insoluble
- Fluoride release and radiopaque

Indications

- Deciduous teeth: restoration for Class I, II und V
- Long term restorations in non-load bearing areas of Class I and II
- Restorations for Class V
- Intermediate restorations
- As underfilling for heavy stress bearing Class I and II cavities (Sandwich-technique)



HDI Harvard Ionoresin Fill Extra
GC GC FUJI II LC Handmix



BasicLine

Harvard Ionoglas Fill LC
Light-cure resin-reinforced glass ionomer cement for fillings.

- Easy to mix and to use
- Good and non-sticky consistency
- Light and self-cure
- Low shrinkage
- Radiopaque

Glass ionomer which connects.

For reliable cementations.

Technical data.

	PremiumLine				**Basic**Line	
	conventional GIC		resin-reinforced GIC		conventional GIC	resin-reinforced GIC
	Harvard Ionoglas Cem Extra		**Harvard Ionoresin Cem Extra**		**Harvard Ionoglas Cem**	**Harvard Ionoglas Cem LC**
Delivery form	powder/4x liquid	OptiCaps®	powder/4x liquid	OptiCaps®	powder/4x liquid	powder/4x liquid
Shade	universal		universal		universal, white	universal
Mixing time	30 sec	10 sec	30 sec	10 sec	30 sec	30 sec
Working time - from start of mixing at 23 °C / 73 °F	1:30 min	1:30 min	2:30 min	2:00 min	1:25 min	1:30 min
Net setting time at 37 ° C / 99 ° F	5:00 min	5:00 min	LC** 20 sec without LC 4:00 min	LC** 20 sec without LC 4:00 min	4:30 Min.	LC** 20 sec without LC 5:30 min

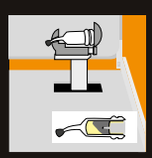
** LC: Light-cure

Overview: Harvard GIC Cements .

	Harvard Ionoglas Cem Extra	Harvard Ionoglas Cem	Harvard Ionoresin Cem Extra	Harvard Ionoglas Cem LC
As underfilling for composite fillings	✓	✓	✓	✓
Crowns & Bridges made of metal and zirconia	✓	✓	✓	✓
Crowns & Bridges made of lithium disilicate ceramics	✓	✓	✓	✓
Crowns & Bridges made of composites	✓	✓	✓	✓
Crowns & Bridges made of silicate ceramics	✓	✓	✓	✓
Crowns & Bridges made of hybrid ceramics			✓	✓
Inlays & Onlays made of metal	✓	✓	✓	✓
Inlays & Onlays made of silicate ceramics, lithium disilicate ceramics and composites			✓	✓
Inlays & Onlays made of hybrid ceramics			✓	✓

Sometimes it should be conventional.

The long-term fluoride release is very high. This reduces the risk of secondary caries at the interface of tooth and filling.



Premium

PremiumLine

Harvard Ionoglas Cem Extra

conventional GIC

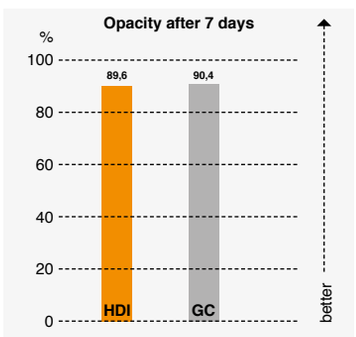
Conventional self cure glass ionomer cement for luting crowns & bridges, metal based inlays, onlays and as a liner under composite fillings.

This biocompatible and resin-free glass ionomer luting cement for allergy patients and for elderly patients. **Harvard Ionglas Cem Extra** is known for its adhesion on the tooth structure and for its good marginal fit. The easy-to-use solution for metal-based restorations and even as a liner under composite fillings.
Low opacity for good aesthetics.

Available as powder / liquid and OptiCaps®.
Available shades A2, A3 and A3.5.
Order information on last page.

Properties and advantages
- Durable cementations
- Low solubility
- Good adhesion to enamel and dentin
- High fluoride release, biocompatible and radiopaque

Indications
- Permanent fixation of crowns & bridges made of metal, metal-ceramics, metal-composite, ceramics and zirconia
- As a liner under composite fillings



HDI Harvard Ionoglas Cem Extra
GC GC FUJI Handmix

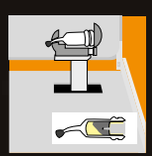
BasicLine

Harvard Ionoglas Cem
Self cure conventional glass ionomer cement for luting crowns & bridges.

- Good adhesion to enamel and dentin
- Fluoride release, biocompatible and Radiopaque
- Easy to mix and to use
- Good marginal fit and sealing

Improved adhesion for enamel & dentin.

No need of primer or conditioner.



Premium

PremiumLine

Harvard Ionoresin Cem Extra

resin-reinforced GIC

Light and self cure resin-reinforced aesthetic glass ionomer cement for luting crowns & bridges, inlays, onlays and as a liner under composite fillings.

The **Harvard Ionoresin Cem Extra** offers a very low film thickness while maintaining high compressive strength. Precise cementing of metal-, ceramic- and composite-based restorations is possible at any time. Easy excess removal and custom made curing by additionally light curing. The smart and comfortable solution.

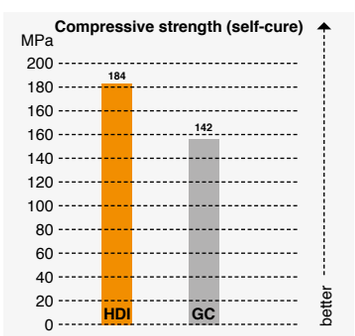
Available as powder / liquid and OptiCaps®.
Available shades A2, A3 and A3.5.
Order information on last page.

Properties and advantages

- Low film thickness
- Practically insoluble
- Improved mechanical properties
- Very low shrinkage
- Custom-made by three types of curing:
  Light-cure + Self-cure + conventional glass ionomer cement reaction

Indications

- Cementing of crown, bridges, inlays and onlays made of metal, metal-ceramics, composites and ceramics
- As liner under composite fillings



HDI Harvard Ionoresin Cem Extra Handmix
GC GC FUJI PLUS EWT Handmix

BasicLine

Harvard Ionoglas Cem LC
Light cure resin-reinforced glass ionomer cement for luting crowns & bridges.

- Radiopaque
- Moisture tolerant
- For long-term restorations
- Easy to mix and convenient to apply
- Good marginal fit and sealing
- Practically insoluble

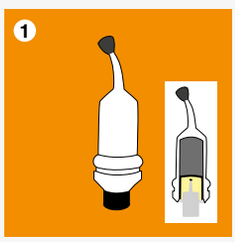
The smart & clever solution in only 10 seconds.

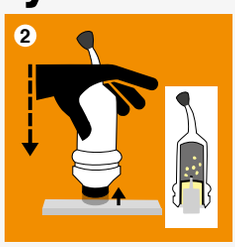
Premium

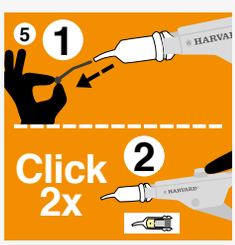
Harvard OptiCaps®

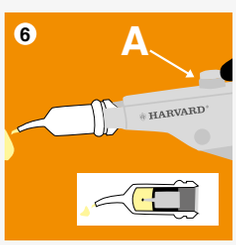
Comfortable and fast application …

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









1. OptiCaps® before activation.
2. Activation: press the plunger to the end into the capsule.
3. Insert the OptiCaps® into the applier and click once to standardize.
4. Mix the OptiCaps®.
5. Insert the OptiCaps® into the applier. Remove the pin. Pull the lever twice (2 clicks) to prime the OptiCaps®.
6. Unlock the gun (push button A) and remove the OptiCaps®.

Optional products for further optimization:

Harvard Ionocoat LC

Light cure protective varnish **for conventional** glass ionomer cements

Properties and advantages

- Easy to use
- Methacrylate-free
- Protects the filling during the first hours from washouts

5 ml

Harvard Ionoresin Prime LC

Light cure primer **for resin-reinforced** glass ionomer cements

Properties and advantages

- For further improve of the adhesive force
- Easy application
- Only one component

5 ml

Article information

For filling	Bestell-Nr.	
Harvard Ionoglas Fill Extra 15 g powder / 8 ml liquid, dosage spoon, mixing pad		conventional GIC
Shade A2	7052112	
Shade A3	7052113	
Shade A3.5	7052135	
50 OptiCaps® ea. 0.5 g		
Shade A2	7052252	
Shade A3	7052253	
Shade A3.5	7052254	
Harvard Ionoglas Fill		
10 g powder in the shade A2 / 5.6 ml liquid, dosage spoon, mixing pad	7051110	
15 g powder in the shade A2 / 8 ml liquid, dosage spoon, mixing pad	7051115	
15 g powder in the shade A3 / 8 ml liquid, dosage spoon, mixing pad	7051116	
Harvard Ionoresin Fill Extra 15 g powder / 8 ml liquid, dosage spoon, mixing pad		resin-reinforced GIC
Shade A2	7071118	
Shade A3	7071119	
Shade A3.5	7071120	
50 OptiCaps® ea. 0.5 g		
Shade A2	7071253	
Shade A3	7071254	
Shade A3.5	7071255	
Harvard Ionoglas Fill LC	7052115	
15 g powder in the shade A3 / 8 ml liquid, dosage spoon, mixing pad		

For luting		
Harvard Ionoglas Cem Extra	7042115	conventional GIC
15 g powder in the shade universal / 10 ml liquid, dosage spoon, mixing pad		
50 OptiCaps® ea. 0.4 g in the shade universal	7042250	
Harvard Ionoglas Cem		
15 g powder in the shade universal / 10 ml liquid, dosage spoon, mixing pad	7041115	
35 g powder in the shade white / 20 ml liquid, dosage spoon, mixing pad	7041130	
35 g powder in the shade universal / 20 ml liquid, dosage spoon, mixing pad	7041135	
Harvard Ionoresin Cem Extra	7061116	resin-reinforced GIC
15 g powder in the shade universal / 10 ml liquid, dosage spoon, mixing pad		
50 OptiCaps® ea. 0.4 g in the shade universal	7061251	
Harvard Ionoglas Cem LC	7041215	
15 g powder in the shade universal / 10 ml liquid, dosage spoon, mixing pad		

	Bestell-Nr.
Harvard Applier OptiCaps®	7092000
Harvard Ionocoat LC	7052000
5 ml bottle	
Harvard Ionoresin Prime LC	7051000
5 ml bottle	

seit 1892 HARVARD

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Harvard Distribution Partner.

HARVARD®

Marke und Qualität seit 1892

Harvard Dental International GmbH
Margaretenstr. 2 - 4, 15366 Hoppegarten, Germany
Phone: + 49 (0) 30/99 28 978-0
Fax: + 49 (0) 30/99 28 978-19
info@harvard-dental-international.de

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