

Conventional Glass Ionomer Cements

Harvard Ionoglas Fill Extra

Esthetic conventional glass ionomer cement for restorations, self cure

- Esthetic natural translucency
- High surface hardness, reliable mechanical properties
- Low solubility
- Very good marginal seal
- Excellent bond to dentin and enamel without etching
- High fluoride release
- Radiopaque
- Also available in OptiCaps®

High esthetics!



Harvard Ionoglas Cem Extra

Esthetic conventional glass ionomer cement for luting of crowns, bridges, inlays and onlays

- Perfect consistency and low film thickness
- Very good marginal fit and seal
- Excellent bond to dentin and enamel without etching
- Reduced solubility
- High fluoride release
- Also available in OptiCaps®



Harvard Ionoglas Fill Extra

Properties and Advantages!

OptiCaps® and Handmix

- *Reliable and convenient*
- *Easy handling*

Nice translucency and very easy to polish

- *Esthetic final results*

Excellent bond to dentin and enamel without etching

- *Very good marginal fit and seal*

High surface hardness

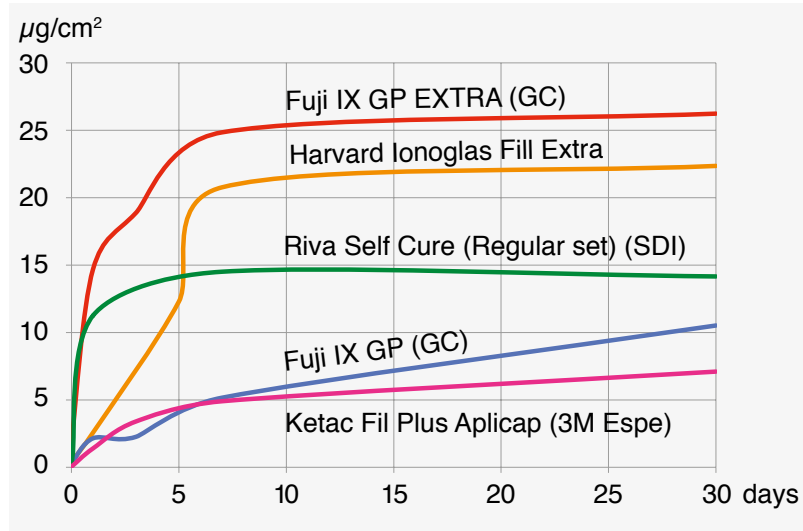
Low solubility

No polymerization shrinkage

High fluoride release

Radiopaque

High fluoride release



Cumulative fluoride release*

Application

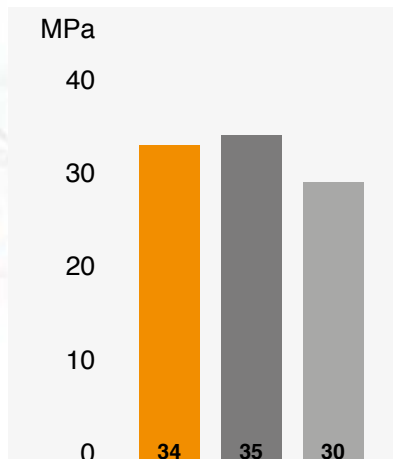


Prepared cavity

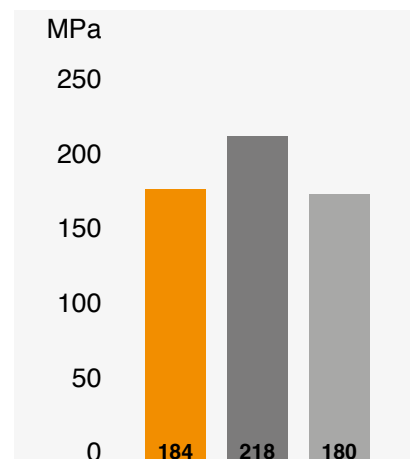


Finished restoration

Good physical properties



Flexural strength*



Compressive strength*

■ Harvard Ionoglas Fill Extra ■ GC Fuji IX GP (GC) ■ Ketac Fil Plus (3M Espe)

Initial protection:

Harvard Ionocoat LC

Prevents the glass ionomer restoration from early dissolution during setting.



Harvard Ionoglas Cem Extra

Properties and Advantages!

OptiCaps® and Handmix

- *Reliable and convenient*
- *Easy handling*


Excellent bond to dentin and enamel without etching

- *Very good marginal fit and seal*

Low shrinkage
Low solubility

High fluoride release

Radiopaque

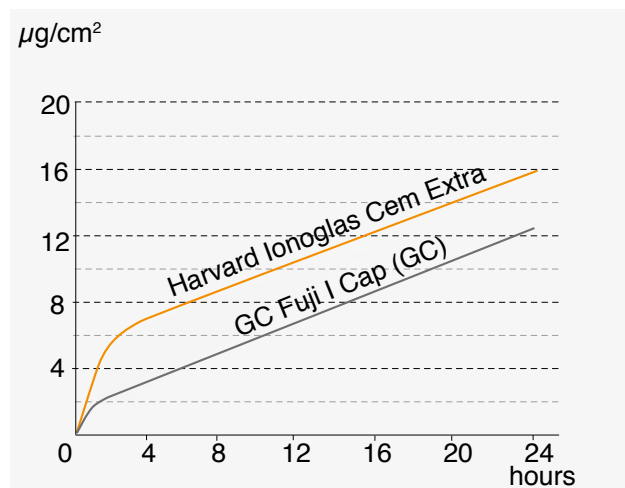


Complementary to
Harvard Ionoglas Fill Extra and
Harvard Ionoglas Cem Extra:

Harvard Ionoconditioner

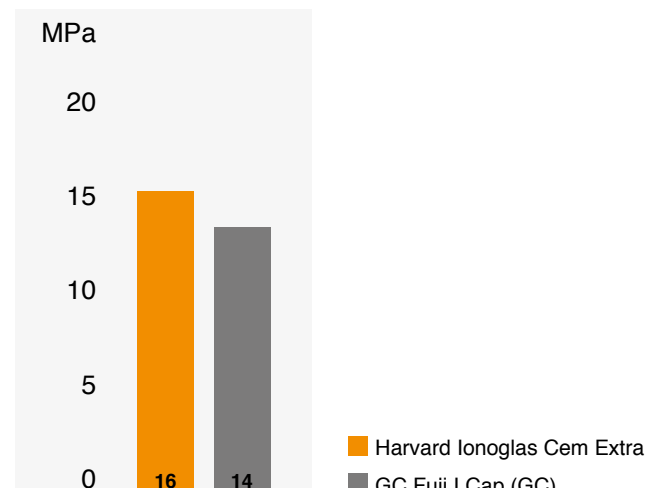
Removes the smear layer
from the prepared tooth
surface.

High fluoride release



Cumulative fluoride release*

Good physical properties



Flexural strength*

* Internal data by Harvard Dental International

Technical Data



Harvard Ionoglas Fill Extra

Esthetic conventional glass ionomer cement for restorations, self cure

Compressive strength	184 MPa
Flexural strength	34 MPa
Working time	1:30 min
Setting time	3:30 min
OptiCaps® mixing time	10 sec
Working time	90 sec (1:30 min)*

* from the start of mixing



Harvard Ionoglas Cem Extra

Esthetic conventional glass ionomer cement for luting of crowns, bridges, inlays and onlays

Compressive strength	92 MPa
Flexural strength	16 MPa
Working time	1:30 min
Setting time	5:00 min
OptiCaps® mixing time	10 sec
Working time	90 sec (1:30 min)*



Article

Order no.

Harvard Ionoglas Fill Extra

15 g powder / 8 ml liquid, dosage spoon, mixing pad

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 Cem Extra

15 g powder, shade Universal / 10 ml liquid, dosage spoon, mixing pad

50 OptiCaps® ea. 0.4 g, shade Universal	7042115
	7042250

Harvard Ionocoat LC 5 ml bottle	7052000
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Harvard Ionoconditioner 5 ml bottle	7053000
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Harvard Applier OptiCaps®	7092000
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7092000