Compendium of CEMENTS
GLASIONOMER® AND HY-BOND® MATERIALS
## GLASS IONOMER CEMENTS

### HY-BOND CX

**Luting**

An enhanced glass ionomer luting cement that contains the unique Hy-Agent (Tannin-Fluoride additive) to provide an excellent marginal seal and overcome postoperative sensitivity.

**INDICATIONS:**
- For luting crowns, bridges, onlays & Orthodontic bands
- Ideal for long span bridges

**BENEFITS:**
- Higher compressive strength and bonding strength
- Low film thickness of 18µm
- High fluoride release
- Long working time Snap-set setting reaction of 3min after placement
- Easy mixing & excellent handling
- Radiopaque
- Highest resistance to water contamination at the initial stage

**AVAILABILITY:**
- Complete set [PN 1190] (45gm / 25ml)
- Powder, 45gm [PN 1191]
- Liquid, 25ml [PN 1192]
- Glaslonomer CX-Plus [PN 1187] (15gm / 8ml)

### HY-BOND RESGLASS

**Resin Reinforced Luting Cement**

A new radiopaque, resin reinforced glass ionomer cement, which offers less postoperative sensitivity, minimum odour, superior handling with excellent physical properties.

**INDICATIONS:**
- A versatile cement designed for cementation of metal, porcelain and resin restorations including metal or ceramic orthodontic brackets

**BENEFITS:**
- Chemically bonds to enamel and dentin with high fluoride release
- Low film thickness of 12µm
- Minimum odour & virtually no post-operative sensitivity
- Improved fracture toughness and low solubility
- Provides an excellent marginal seal and prevents microleakage
- High translucency
- Excellent compressive and flexural strength with high durability
- Superior handling and easy removal of excess cement
- Long working time with a net setting time of 4min

**AVAILABILITY:**
- Complete set [PN 1103] (15gm / 10gm)
- Powder, 5gm [PN 1104]
- Liquid, 10gm / 8.6ml [PN 1105]

### Glaslonomer Cement Version 2

**Universal Restorative**

A new enhanced universal restorative cement specially created for anterior restorations with excellent handling, optimized translucency and improved physical properties.

**INDICATIONS:**
- Specially designed for Class III, Class V, Cervical erosion/ abrasion and Pedodontic restorations.

**BENEFITS:**
- Chemically bonds to enamel and dentin
- Compressive strength of 263Mpa and high tensile strength
- Easy to mix with excellent handling characteristics
- High fluoride release and recharge
- Optimal translucency for enhanced aesthetics
- Coefficient of thermal expansion similar to that of natural tooth
- Biocompatible
- Radiopaque and low solubility
- Shade: Yellow / Brown suitable for most cases

**AVAILABILITY:**
- Complete Set [PN 3160] (15gm / 8ml, 10gm)
**FX-II**
General Purpose Restorative

An enhanced general-purpose glass ionomer cement for direct restorations, specially created for Minimal Intervention (MI) & A.R.T.

**INDICATIONS:**
- Minimal Intervention (M.I.) treatment
- Restoration of Deciduous teeth
- Geriatric restorative
- Permanent Restorative for Class III, IV
- Cervical Erosion
- Root Abrasion
- Pits & Fissures
- Long term temporary restorative for Class I & II

**BENEFITS:**
- High compressive strength
- Aesthetically match with natural teeth
- Packable and easy to use
- Higher translucency
- Excellent biocompatibility
- Higher fluoride release & recharge
- Radiopaque & Low solubility
- Optimal polishability
- Shades: A2, A3, A3.5 & B2

**AVAILABILITY:**
- Complete Set (15gm / 10ml) [PN 3102~3105]
- Complete Set (6gm / 3.5ml) [PN 3202~3205]

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**HI-DENSE XP**
Silver Reinforced Restorative

Hi-Dense XP contains spherical particles of silver-tin alloy in a specially formulated glass ionomer for better performance with exceptional handling and physical properties even under humid conditions.

**INDICATIONS:**
- Ideal permanent restorative for posterior deciduous teeth & non-stress bearing situations
- Core build-up and Structural base
- Repair of amalgam restorations

**BENEFITS:**
- Silver reinforced for higher compressive strength
- The silver powder is premixed for a more homogeneous mix
- Exceptional fluoride release
- Packable and condensable like amalgam without mercury
- Excellent adhesion to tooth structure, pins and amalgam
- High resistance to erosion
- Radiopaque
- Ideal handling and Easy mixing
- Prevents cuspal flexure under large composite restorations
- Provides a strong base under amalgam

**AVAILABILITY:**
- Hi-Dense XP Starter Pack (10gm / 5ml) [PN 3120]
- Hi-Dense XP Eco Pack (30gm / 10ml) [PN 3123]

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**CORE SHADE**
Core Build-up

Developed to provide a dependable metal-free core build-up (when abutment is too short or lacks tooth structure to support the crown).

**INDICATIONS:**
- Especially for Core Build-up
- As a supportive and protective base under stress-bearing restorations

**BENEFITS:**
- High compressive strength
- Excellent bonding with tooth structure, metal pins or posts
- Good fluoride release
- Biocompatible
- Radiopaque
- Gray in color for easy identification during placement & finishing
- Superior handling
- Economical

**AVAILABILITY:**
- Professional kit (25gm / 13ml) [PN 1115]
- Gray color powder, 25gm [PN 1116]
- Liquid, 10ml [PN 1117]
HY-BOND CEMENTS

**POLYCARBOXYLATE**

Hy-Bond Polycarboxylate Cement was developed with Shofu’s patented tannin-fluoride additive which helps seal the dentinal tubules.

**INDICATIONS:**
Luting agent for cast restorations and Orthodontic appliances.

**BENEFITS:**
- Chemically adheres to tooth structure and metal appliances
- High adhesive strength
- Radiopaque
- Extremely low film thickness
- Low solubility & disintegration
- Easy handling and manipulation
- Can be placed on freshly cut dentin with no pulpal irritation
- Less technique sensitive due to the tannin-fluoride additive

**AVAILABILITY:**
1-1 Set (60gm Powder/40gm Liquid) [PN 1160]
Powder, 60gm [PN 1161]
Liquid, 40gm [PN 1162]
1-1 Set (125gm Powder/70gm Liquid)
Powder, 125gm
Liquid, 70gm

**ZINC PHOSPHATE**

The only Zinc Phosphate cement that can be applied on freshly cut dentin without irritation. The tannin-fluoride additive in the Hy-Bond Zinc Phosphate cement is able to counter the harshness of phosphoric acid.

**INDICATIONS:**
Luting agent for cast restorations and Orthodontic appliances.

**BENEFITS:**
- Good film thickness
- High compressive strength
- Seals dentinal tubules and minimises post operative sensitivity
- Radiopaque
- Less technique sensitive with superior handling
- Can be placed on freshly cut dentin due to tannin-fluoride
- Minimal solubility

**AVAILABILITY:**
1-1 Set (60gm Powder/40gm Liquid) [PN 1170]
Powder, 60gm [PN 1171]
Liquid, 40gm [PN 1172]
1-1 Set (125gm Powder/70gm Liquid)
Powder, 125gm
Liquid, 70gm

**TEMPORARY CEMENT**

Soft

Hy-Bond Temporary Cement (Soft) was developed combining the base of polycarboxylate cement with Hy-Agent to form an Eugenol free temporary cement.

**INDICATIONS:**
For use with provisional crowns, fixed protheses & implant prosthesis. Indirect pulp capping, temporary sealing after cavity preparation.

**BENEFITS:**
- Contains tannin-fluoride which seals dentinal tubules to minimise pulpal irritation
- Easy to remove
- Sufficient adhesive strength for short term curation
- Fast setting and easy clean-up
- Minimum odor and taste
- Easy to mix with superior handling characteristics

**AVAILABILITY:**
1-1 Set (125gm Powder/70gm Liquid) [PN 1173]
Powder, 125gm
Liquid, 70gm
1-1 Set (60gm Powder/35gm Liquid) [PN 1176]