

fastmill.io™ MILLING MATERIALS GUIDE

fastmill.io™

In-Office Unit



GLIDEWELL DENTAL



Material: Pre-shaded, fully sintered zirconia

Ideal for:

- Single-unit full-contour posterior crowns
- Cases with limited interocclusal space
- Restorations with > 1 mm margin thickness



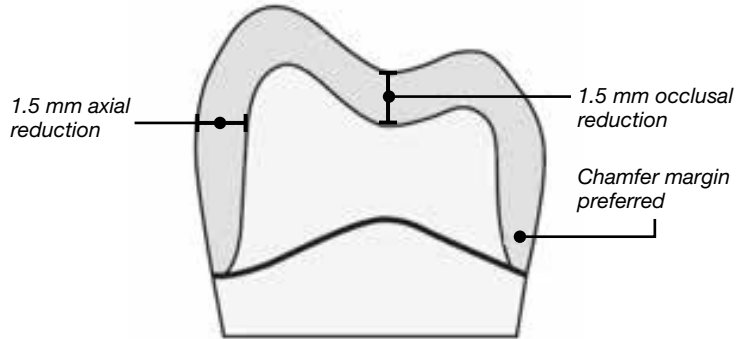
Specifications and Benefits:

- Average flexural strength: 1100 MPa
- Available in 14 popular VITA[®] shades
- Sold in 3-block packs with 3 single-use burs per pack
- No oven or post-milling processing needed; just polish and cement
- Conventional cementing with no bonding required
- Minimal preparation requirements allow patients to keep more existing natural dentition

Please visit bruxzir.com for more information.

Ideal Preparation for BruxZir® NOW Restorations

POSTERIOR FULL-COVERAGE CROWN



- 1.5 mm reduction
- Chamfer or shoulder margins preferred
- All axial walls must be convergent
- Preparation should be cut in three planes
- Do not add anti-rotation features to preparation; they can cause failure during milling
- Drafted sides and smooth surfaces on preparation create the best fit

Material: Lithium Silicate Glass Ceramic

Ideal for:

- Single-unit full-contour anterior and posterior crowns
- Inlays and onlays
- Restorations requiring excellent esthetics



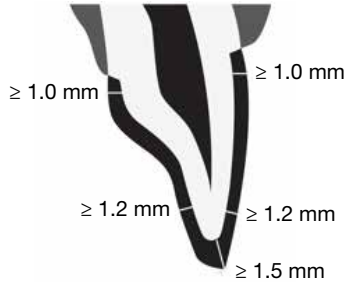
Please reference obsidiansceramic.com/resources for approved accessories, ovens, techniques and user manual.

Specifications and Benefits:

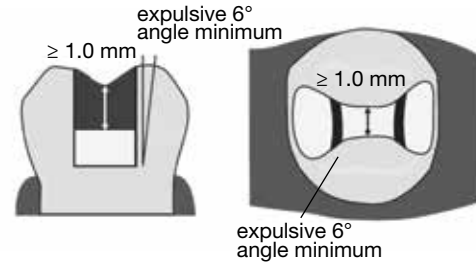
- Flexural strength: 385 MPa
- Available in 12 popular VITA® Classical shades and 2 bleach shades
- Sold in 5-block packs
- Short crystallization cycle required
- Can be conventionally cemented or bonded with adhesive
- Standard ceramic crown preparation requirements
- Natural translucency matches most dentition

Ideal Preparation for Obsidian® Restorations

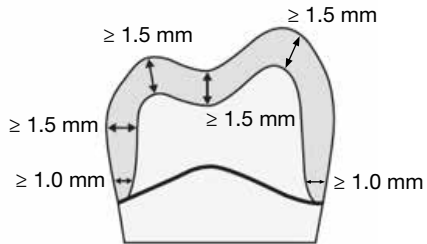
ANTERIOR FULL-COVERAGE CROWN



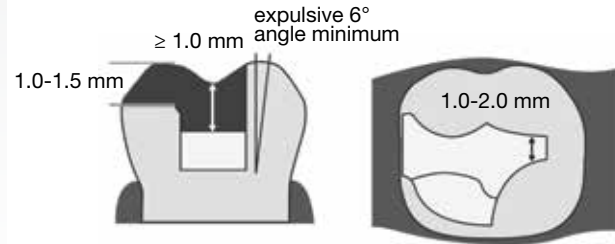
INLAY



POSTERIOR FULL-COVERAGE CROWN



ONLAY



Material: Ceramic-filled nanohybrid resin composite

Ideal for:

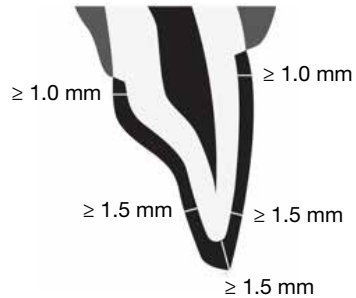
- Single-unit full-contour anterior and posterior crowns
- Inlays and onlays



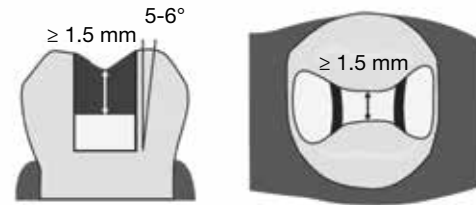
- Specifications and Benefits:**
- Flexural strength: 193 MPa
 - Available in 7 popular VITA® shades (5 shades available in 2 translucencies), and 1 bleach shade
 - Sold in 5-block packs with or without bonding kits
 - Fast-milling, gentle on milling burs and requires no crystallization firing
 - Adhesive bonding with recommended protocol for best results:
 - Gluma® Desensitizer
 - OptiBond™ XTR Primer
 - OptiBond™ XTR Adhesive – Maxcem Elite™ Cement
 - Standard composite-based restoration preparation requirements
 - Can be amended with direct intraoral composites, such as Nanohybrid Universal Composite from Glidewell
 - Best survival rate and cementation performance for ceramic-polymer crowns in one-year study as reported in the Nov. 2018 issue of Gordon J. Christensen Clinicians Report®.

Ideal Preparation for CAMouflage® NOW Restorations

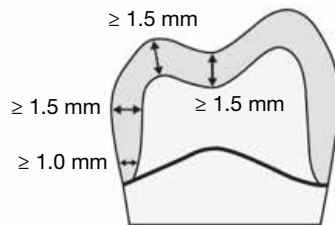
ANTERIOR FULL-COVERAGE CROWN



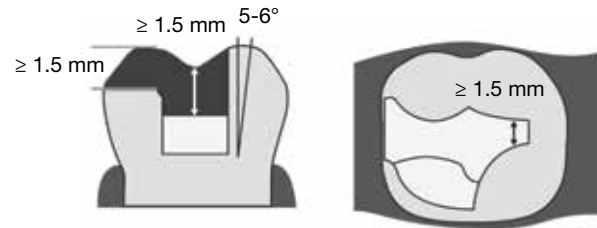
INLAY



POSTERIOR FULL-COVERAGE CROWN



ONLAY



CAMouflage® NOW Milling Block Kits Include:

CAMouflage® NOW
milling blocks (qty. 5)



Maxcem Elite™
Cement



Gluma®
Desensitizer



Micro Brushes



Automixing
Tips



OptiBond™
XTR Primer



OptiBond™
XTR Adhesive



Not included, but required:



Fine Diamond Burs



Fine and Extra-Fine
Rubber Polisher



MicroEtcher™



50 µm Alumina



37% Phosphoric Acid
(inlays/onlays and veneers only)

Other required equipment: 1. In-Office milling machine 2. Ultrasonic cleaner 3. Light-curing unit (Halogen lamp: > 850 mw/cm²; LED: > 1100 mw/cm²)
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Material: PMMA

Ideal for:

- Temporary single-unit full-contour anterior and posterior crowns
- Preview of final restorations

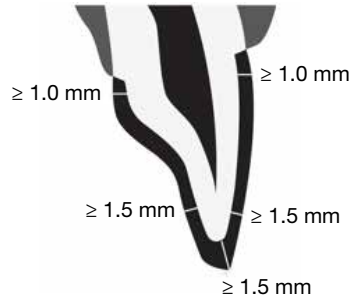


Specifications and Benefits:

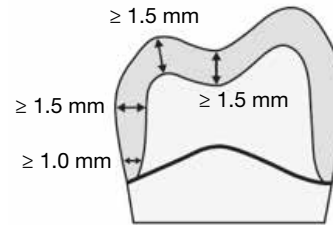
- Flexural strength: > 50 MPa
- Available in 6 popular VITA[®] shades and 1 bleach shade
- Sold in 5-block packs
- No oven or post-milling processing required
- Conventional adhesive or eugenol-free cementing materials can be used
- Up to 6 months of wear time
- Stored digital file can be reused for permanent material of choice
- Can be amended with direct intraoral composites, such as Nanohybrid Universal Composite from Glidewell

Ideal Preparation for BioTemps® NOW Restorations

ANTERIOR FULL-COVERAGE CROWN



POSTERIOR FULL-COVERAGE CROWN




Materials Informational Matrix

	BruxZir® <i>NOW</i>	Obsidian® <small>LITHIUM SILICATE CERAMIC</small>	CAMouflage® <i>NOW</i>	BioTemps® <i>NOW</i>
Strength	1100 MPa	385 MPa	193 MPa	≥ 50 MPa
Ideal Uses	<ul style="list-style-type: none"> • Posterior Crowns 	<ul style="list-style-type: none"> • Anterior and Posterior Crowns • Inlays, Onlays 	<ul style="list-style-type: none"> • Anterior and Posterior Crowns • Inlays, Onlays 	<ul style="list-style-type: none"> • Temporary Anterior and Posterior Crowns
Shades	14 VITA Shades (A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, D2, D3)	12 VITA Shades (A1, A2, A3, A3.5, B1, B2, B3, C1, C2, C3, D2, D3) 2 Bleach Shades (BL1, BL4)	7 VITA Shades (A1LT, A1HT, A2LT, A2HT, A3LT, A3HT, A3.5LT, A3.5HT, B1LT, B1HT, C2LT, D2LT) 1 Bleach Shade (BL)	6 VITA Shades (A1, A2, A3, A3.5, B1, C2) 1 Bleach Shade (BL)
Cementation	Conventional Cement	Conventional Cement (Resin Cement Recommended)	Adhesive Cementation (Gluma Desensitizer + OptiBond XTR Adhesive + OptiBond XTR Primer + Maxcem Elite Cement)	Conventional Adhesive or EudenoL-Free Cementation
Total Time	Mill: < 40 min. Finish/Polish: 5 min. Furnace: 0 min. Cement: 5 min. Total: ≤ 50 min.	Mill: 12–18 min. Finish/Polish: 5 min. Furnace: 22 min. Cement: 5 min. Total: 44–50 min.	Mill: ≤ 10 min. Finish/Polish: ≤ 5 min. Furnace: 0 min. Cement: ≤ 15 min. Total: ≤ 30 min.	Mill: ≤ 10 min. Finish/Polish: ≤ 5 min. Furnace: 0 min. Cement: 5 min. Total: ≤ 20 min.

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