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1700801_MAZIC Duro_ENG_02



MAZIC[®] Duro

Nano Hybrid Ceramic for CAD/CAM



Elasticity & Easy Workability · High Flexural Strength · Stain Resistance · Excellent Esthetics



Excellent esthetics and durability!

- Natural tooth-like esthetics and elasticity
- High flexural and compressive strength
- Excellent stain resistance
- Easy add-on with composite resin
- Excellent cementation
- Easy handling for adjustment of occlusal surface
- No firing and glazing : saving time, equipment and spaces
- Prosthesis treatment in 1-Day









Crown

Onlay

Inlay

Veneer

MAZIC® Duro

MAZIC® Duro is an advanced Nano-Hybrid ceramic, consisting of ca.80% of Nano-particle sized ceramic fillers (zirconia, silicate) and 20% of high-density, hardening resin matrix. **MAZIC® Duro** has advantages of both high-density resin matrix and ceramics at the same time. You can take elasticity, easy workability of high-density resin matrix and also strength, stain resistance as well as aesthetics of ceramics.

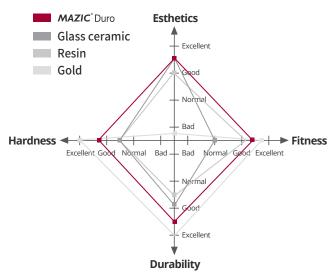
MAZIC® Duro applies to various prosthesis such as inlays, onlays, veneers and single crown with 1-Day treatment and makes sure of higher standard of esthetics than other materials, in spite of easy and simple workings only with CAD/CAM system.

Patent On Control Technique Of -All Direction Shrinkage-stress



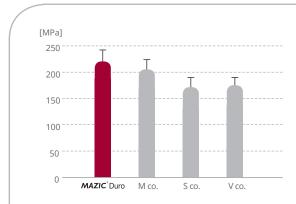
The patent technology for assuring high workability and esthetics by equally dispersing the stress of particular directions

Physical Properties Comparison In Inlay Application



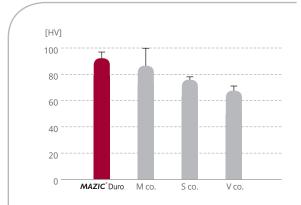
MAZIC® Duro has the closest physical properties and esthetics comparing with natural teeth and flexural/bonding/ compressive strength are much better than glass ceramic as well as indirect resin. Realize the best esthetic prosthesis that every patient wishes with **MAZIC® Duro**.

Flexural Strength



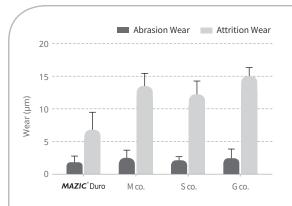
High flexural strength makes possible to use the material for a long time in oral.

Vickers Hardness



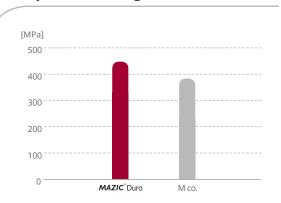
High vickers hardness makes resistant to micro-wear.

Wear Resistance



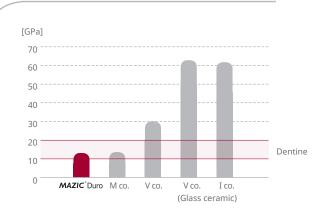
High wear resistance makes long-term use due to the high resistance to chewing and surface wear by food or toothpaste.

Compressive Strength



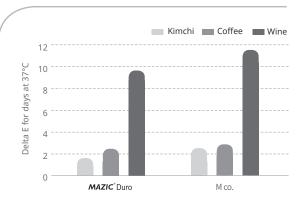
High compressive strength makes resistant to the stress of chewing.

Modulus of Elasticity



Modulus of elasticity similar to natural teeth minimizes the damages of antagonistic teeth as well as prosthesis.

Stain Resistance



Low stain resistance maintains esthetics for a long time due to no shade variance of prosthesis.



Fluorescence

MAZIC® Duro shows natural esthetics even in mouth due to the fluorescence similar to your teeth.



Radio-opacity

MAZIC® Duro is easy to check dental procedures with high radio-opacity.

Clinical Cases

MAZIC® Duro is available for fabricate single teeth such as Inlays, Onlays, Veneers and Full Crowns.

• Case 1





• Case 2



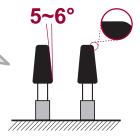


Preparation Guidelines

- MAZIC® Duro follows a prep-guideline of all ceramics restoration.
- Inside of the edge and angle should be round.
- It is recommendable to prep rounded shoulder and chamfer.
- The numerical values in guide-lines are the minimum thickness of prosthesis by MAZIC® Duro.

Prep tooth with 5~6° taper, rounded edge and shoulder margin.

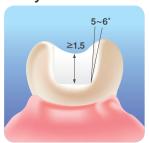
✓ Check Point!



Veneer



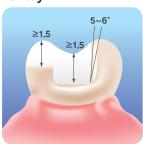




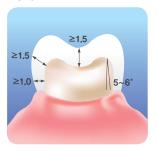
Good

- In case of crown, prep tooth with 5~6° taper, rounded edges and shoulder margin.
- Remove residues(temporary cement, tooth-debris and scanning spray) by a brush or soft pumice.
- Gently clean with water and blow dry by air.
 (Do not dry completely)

Onlay



Crown



Bad

- Do not use chemicals after prep.
 (Example: EDTA, CHX, Bicarbonate, Hydrogen peroxide, Hyper-esthetic agent)
- Do not use laser etching.
- Do not use temporary cement in types of eugenol affiliation.

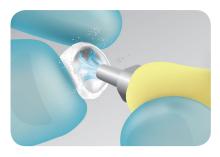
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Cementation Guidelines



1. Intraoral Try-in

Check out proximate and occlusal surface between prosthesis and teeth. Trim the surface.



2. Sand Blasting

Sandblast with 25-30 μ m alumina(0.2MPa). Clean with oil free air syringe and with ethanol.



Etching

Etch inside of prosthesis with 5% of Hydro fluoric acid for 20 sec. and clean by neutralizing agent.



3. Silanate

Before cementation, apply silane primer and dry for 60 sec.



4. Cementation

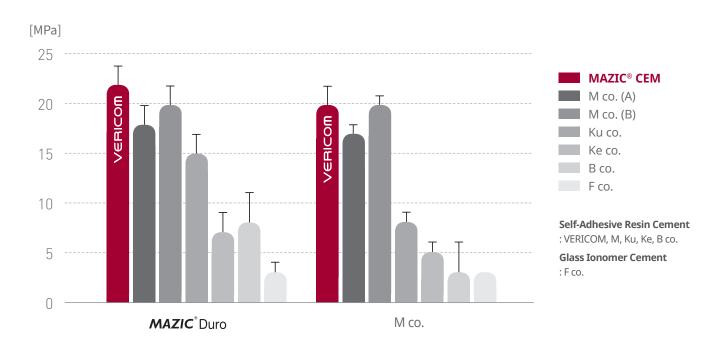
Apply high performance self-adhesive or adhesive resin cements.



5. Final Restoration

Hold restorations in place until cement sets. And remove excess cement.

Bonding Strength



Polishing Procedure -



1. Removing sprue by diamond disc



2.Grinding with cerapol wheel



3. Polishing with rubber point



4. Polishing with silicon point



5. Polishing with a soft brush applied by diamond paste



6. Finish with cotton wheel



< Comparison of gloss before and after >

Add-on Guide -

Easy repair with our light-cured composite resin is possible.



1. Prepare Add-on part rough



2. Apply for BC Plus twice to Add-on part



3. Dry enough with soft air (Approx. 10 sec.)



4. Light-curing for Approx. 20 sec.



5. Apply for DenFil™ Flow to Add-on part



6. Light-curing for Approx. 20 sec.



7. Finalization by polishing the part of Add-on and surroundings



Flowable Light-cured Composite Resin DenFil™ Flow

Order Information



Mandrel Type (Cerec Type)

Product		12	14L
Size (W×L×H, mm)		12.2×10.2×15	14.5×14.5×18
Shade	HT	A1, A2, A3, B1	
	LT	A1, A2, A3, A3.5, A4 (B1, C2, D2, W1)	



Disk Type

Size		8T	10T
ø 98H ø 100H		ø98×8 ø100×10	ø 98×10
Shade	HT	A1, A2, A3	A1, A2, A3
	LT	A3.5	A3.5

Product Line-up

Pressable Lithium Disilicate Glass

MAZIC[®] Claro CAD



MAZIC® Claro CAD is a high-strength glass ceramic block by Lithium Disilicate for CAD/CAM process. Applications are single restoration unit such as Inlays, Onlays, Veneers and Crowns.

Self-Adhesive Universal Resin Cement



U-Cem™ Premium is a dual-cured self adhesive resin cement that requires no pre-treatment. This material shows high bonding strength on various prosthesis in Zirconia, Metal, Composite resin, Glass ceramic and no micro-leakage. Also, it is easy to use and to remove excess cement.

Long-term Temporary Restorative Resin Blank

MAZIC® Pro



The next-generation in hybrid temporary restorative material consists of 10nm fine-particles and pearl type polymer. And it has a different aesthetic and workability compared to conventional PMMA for temporary prosthesis manufacturing.

Zirconium Oxide



The zirconium oxide block has a high flexural strength over 1300 MPa, excellent fracture resistance, and has twice the fracture toughness than glass infiltrated ceramic.

Surface Pretreatment Primer

MAZIC Primer



MAZIC® Primer improves bonding strength between resin cement and indirect restoration such as zirconia, metal glass ceramic, lithium disilicate glass ceramic and composite resin.

