

# SHOFU BLOCK SHOFU DISK



CAD / CAM Ceramic-based Restorative



# SHOFU BLOCK HC

## SHOFU DISK HC



## *Creating Life-like HC Restorations*

The new generation of CAD / CAM restorative, SHOFU HC Hybrid Ceramic comes with exceptionally natural aesthetics, superior mechanical properties, faster milling and efficient polishing to a natural luster.

Unique filler technology based on decades of experience with Ceramage has provided the expertise to develop SHOFU HC Hybrid Ceramic.

A class above in quality, SHOFU HC CAD / CAM restorative offers the unique flexibility of the in-office (**SHOFU BLOCK HC**) and in-lab (**SHOFU DISK HC**) versions, enabling you to select exactly what you need for your practice.



### HC Benefits...

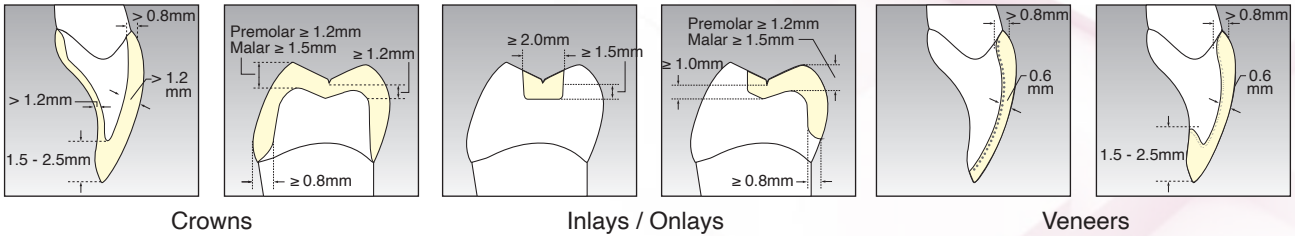
Created through a rigorous manufacturing process, **SHOFU BLOCK / DISK HC** exhibit superior features and consistent quality.

- **Life-like Aesthetics with natural opalescence**
- **Excellent polishability for lasting aesthetics**
- **Remarkable stain resistance**
- **Exceptional wear resistance**
- **Greater flexural strength and shock absorbing ability**



## Spectrum of Clinical Applications

- Inlays
- Onlays & Overlays
- Laminate veneers
- Anterior and Posterior full crowns
- Implant supported restorations



\*The abutments must be designed with rounded incisal and cusp areas for more precise milling due to the thickness of CAD / CAM burs (generally 1mm). A deep chamfer or rounded shoulder margins are better for scanning.

## CAD / CAM Tooth Preparation

For Precise Scanning & Milling

11 shapes that guarantee precise preparation for CAD / CAM restoration

102R	106RD	SF106RD	107RD	SF107RD	145	SF145	265R	SF265R	SF114	SF151
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The 11 steps of preparation are:

- Initial Reduction
- Preparation of the surface and incisal edge
- Preparation of axial surface
- Surface finish
- Preparation of palatal / lingual surface
- Preparation of occlusal surface
- Finishing margins
- Rounding off incisal edges and angles

**SF151 Burr Detail:**

Ideal curvature for scanning and milling

Incisal edge is too sharp without sufficient thickness

It cannot be milled precisely due to thickness of the CAM milling burs

Redundant gap is generated around the incisal edge

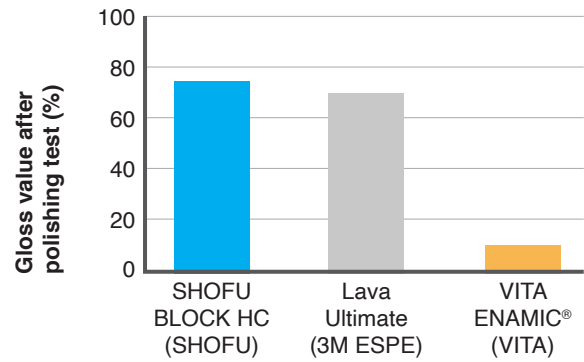
Close-up views of the SF151 bur application:

- Diagram: R = 1.6mm
- Diagram: 3mm diameter, 2 ~ 2.5mm depth
- Diagram: 3mm diameter, 1.5mm depth

## Predictable Performance

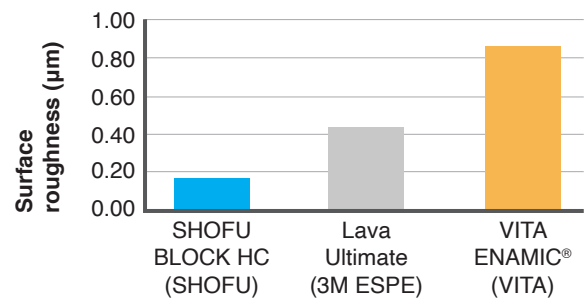
### Exceptional Polish

Unique microstructure of **SHOFU BLOCK / DISK HC** ensures the creation of an extremely smooth and durable surface finish in a very short time. With the recommended chairside and intra-oral polishing kits from SHOFU, a natural gloss can be easily achieved in no time.



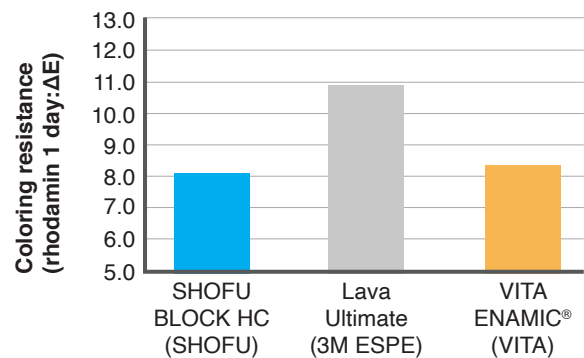
### Outstanding Wear Resistance

Considered one of the key requisites for longevity of CAD / CAM restoratives, **SHOFU BLOCK / DISK HC** has a special microarchitecture that imparts outstanding wear resistance and superior gloss retention.



### Remarkable Colour Stability

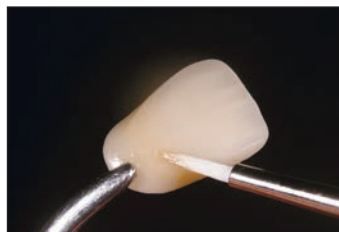
Food and drinks discolour both natural teeth and restorative materials. **SHOFU BLOCK / DISK HC** shows high resistance to staining, for restorations that maintain the original shade and gloss over time.



## Customized Restorations to suit individual patient needs



Roughen restoration surface with Shofu Diamond Points or Dura-Green stones and clean. Then apply Cera Resin Bond II and light cure for 3 min. by using SOLIDILITE V.



Apply LITE ART COLOR PASTE (this image shows A-Shadow) on the surface and light cure for 1 min. by using SOLIDILITE V.



Cover the applied surface with incisal or translucent paste of CERAMAGE (e.g., T-Glass).



CRB Set



Lite Art light cure resin stain



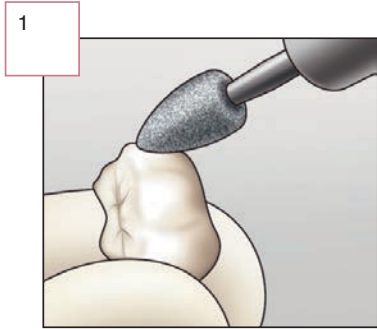
Ceramage



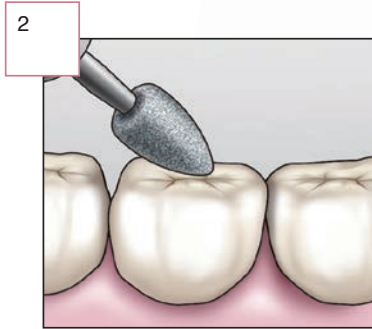
## Finishing & Polishing

### Chairside Finishing & Polishing Protocol

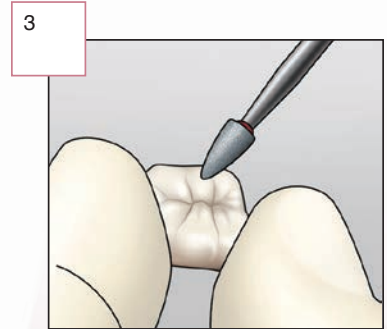
Milled HC restoration is easily polished to a natural luster with the Ceramage Polishing Kit



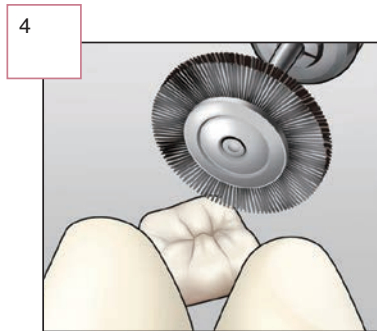
1 Remove the sprue from the restoration



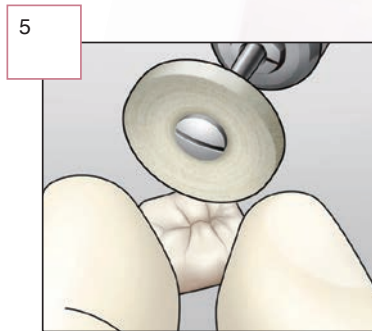
2 Try the restoration and check the occlusion



3 Adjust and contour with Dura-Green stone, Silicone point HR2 & Pivot Brush SC (if required)



4 Pre-Polish with Al<sub>2</sub>O<sub>3</sub> impregnated polishing paste (DURA-POLISH)



5 Polish to a high gloss with diamond impregnated polishing paste (DURA-POLISH DIA) and clean with ultrasonic cleaner or with steam cleaner and dry.



Ceramage Finishing & Polishing Kit



Dura-Polish



Dura-Polish Dia

### Intra-oral Finishing & Polishing Protocol

The restoration can be adjusted intra-orally with Dura White stones and polished with CompoMaster and to an enamel-like luster with Direct-Dia Polishing Paste.



Dura-White Stones



CompoMaster Coarse & CompoMaster CA



Direct Dia Paste with Super-Snap Buff

## Compatibility

**SHOFU DISK HC** with 14 mm thickness and 98.5 mm diameter with shoulder are available for milling with the aid of open CAD / CAM systems.

**SHOFU BLOCK HC** is available with various holding pins (Universal, CEREC and Ceramill) in the most common tooth shades and two levels of translucency. 2 additional enamel shades are particularly suitable for aesthetic inlays, onlays and veneers.



## Shade Range

	W2	A1	A2	A3	A3.5	B3	59	OC
<b>LT</b> Low Translucency								
<b>HT</b> High Translucency								
<b>Enamel</b>								

### LT – Low Translucency

Designed to match VITA Classical shades with lower translucency to suit cases of posterior crowns

### HT – High Translucency

Designed with higher translucency to suit cases of inlays and anterior crowns

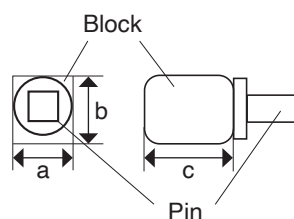
### Enamel

Designed to replace the enamel layer, 59 (Incisal) and OC (occlusal)

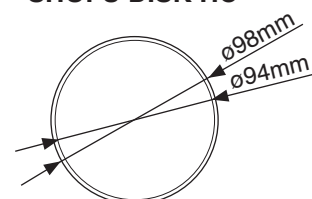
## Shape Dimensions (mm)

### SHOFU BLOCK HC

Type	Dimension (mm)		
	a	b	c
<b>S</b>	10	12	16
<b>M</b>	12	14	18



### SHOFU DISK HC



# HC Primer

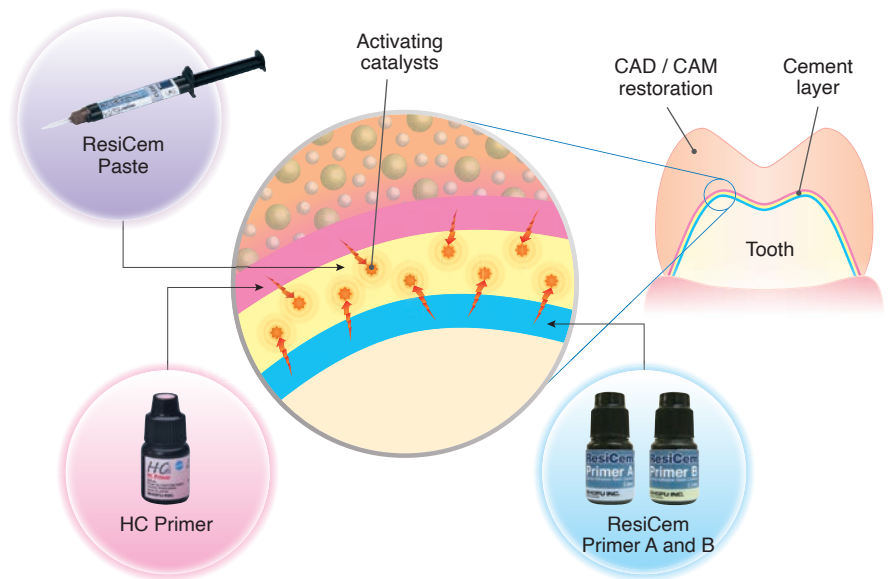
The newly developed bonding system provides the perfect surface pretreatment for reliable adhesive bonding of SHOFU Block HC / Disk HC and all other hybrid ceramics.

Thanks to its innovative monomer composition, the primer infiltrates the matrix of the hybrid ceramic material, ensuring strong micro-mechanical retention between primer and restoration, without the risk of inclusions or bubbles. It also forms a durable bond to adhesive resin cements, such as ResiCem.



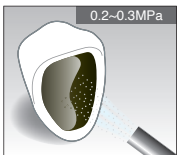
## Excellent Bonding Strength and Stability

The combination of HC Primer and the dual-curing composite cement – ResiCem provides CAD / CAM luting system with perfectly matched components. HC Primer as well as the self-etching ResiCem Primer A and B contain polymerisation accelerators, affecting the luting composite from both sides during polymerisation to ensure an accelerated and strong curing.



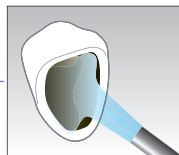
## Procedure

Sanblast intaglio surface of the restoration



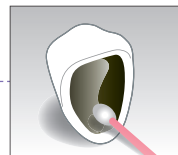
Sandblast with  $Al_2O_3$  ⇒  
Rinse with water ⇒ dry ⇒ try-in

Clean after try-in



After try-in, rinse with water or use phosphoric acid etching gel to clean the inside ⇒ air dry

Apply HC Primer



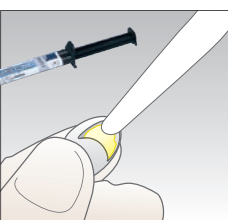
Apply HC Primer ⇒ Sufficiently air dry

Apply ResiCem Primer on Tooth Surface



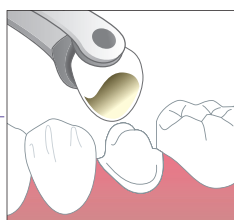
Mix equal amount of Primer A and B and apply. Leave undisturbed for 20 sec. Air dry sufficiently with gentle pressure.

Apply ResiCem



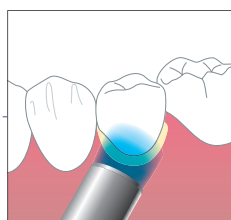
Apply the cement to the inside of restoration

Fix



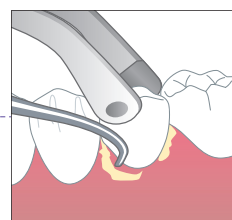
Fix the restoration

Light cure (partially)



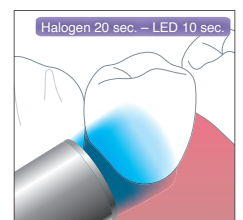
Tack cure for 1 or 2 sec. to partially cure

Remove excess



Remove excess paste

Light cure



Light cure inclusive of the cement margin

## Availability



**SHOFU BLOCK HC**  
5 blocks each per box; size S and M

**SHOFU BLOCK HC Intro Set**  
10 blocks, 1 each of sizes of S and M, shades A1-HT, A2-HT, A3-HT, A3-LT and OC

UNIVERSAL [ REF 2150U ]  
CEREC [ REF 2150C ]



**SHOFU DISK HC**  
1 disk each per box; diameter 98mm, thickness 14mm



**ResiCem Basic Kit [ REF 3220 ]**  
**HC Primer [ REF Y0005 ]**

BLOCK HC (UNIVERSAL)		
SIZE	SHADE	REF (5 pcs.)
1-layer		
M	W2-LT	2157U
	A1-HT	2158U
	A1-LT	2159U
	A2-HT	2160U
	A2-LT	2161U
	A3.5-LT	2162U
	A3-HT	2168U
	A3-LT	2169U
	B3-LT	2170U
	59 (Incisal)	2171U
	OC (Occlusal)	2172U
S	W2-LT	2151U
	A1-HT	2152U
	A1-LT	2153U
	A2-HT	2154U
	A2-LT	2155U
	A3.5-LT	2156U
	A3-HT	2163U
	A3-LT	2164U
	B3-LT	2165U
	59 (Incisal)	2166U
	OC (Occlusal)	2167U

BLOCK HC FOR CEREC		
SIZE	SHADE	REF (5 pcs.)
1-layer		
M	W2-LT	2157C
	A1-HT	2158C
	A1-LT	2159C
	A2-HT	2160C
	A2-LT	2161C
	A3.5-LT	2162C
	A3-HT	2168C
	A3-LT	2169C
	B3-LT	2170C
	59 (Incisal)	2171C
	OC (Occlusal)	2172C
S	W2-LT	2151C
	A1-HT	2152C
	A1-LT	2153C
	A2-HT	2154C
	A2-LT	2155C
	A3.5-LT	2156C
	A3-HT	2163C
	A3-LT	2164C
	B3-LT	2165C
	59 (Incisal)	2166C
	OC (Occlusal)	2167C

DISK HC	
SHADE	REF (1 pc.)
1-layer	
W2-LT	2180S
A1-HT	2186S
A1-LT	2181S
A2-HT	2187S
A2-LT	2182S
A3.5-LT	2184S
A3-HT	2188S
A3-LT	2183S
B3-LT	2185S
59 (Incisal)	2189S
OC (Occlusal)	2190S



**SHOFU DENTAL ASIA-PACIFIC PTE. LTD.**  
1 Science Park Road, #01-01 / 02 The Capricorn, Singapore Science Park II,  
Singapore 117528 Tel: (65) 6377 2722  
eMail: mailbx@shofu.com.sg www.shofu.com.sg



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