



# SHOFU BLOCK HC

## en Instructions for use

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Location of the symbols glossary:  
[https://www.shofu.com/en/symbols\\_glossary](https://www.shofu.com/en/symbols_glossary)



READ CAREFULLY BEFORE USE

## en CAD/CAM CERAMIC-BASED RESTORATIVE

SHOFU BLOCK HC is a highly esthetic ceramic based restorative for milling into dental restorations using a dental CAD/CAM system.

### SHADES

High Translucent: A1-HT, A2-HT, A3-HT

### SIZES

S, M

### COMPOSITION

Silica powder, Zirconium silicate, UDMA, TEGDMA,  
Micro fumed silica, Pigments and others

### INDICATIONS

For fabrication of inlays/onlays, laminate veneers, anterior and posterior full crown restorations and implant supported restorations, using a dental CAD/CAM system.

### PRECAUTIONS

1. Proper case selection is recommended in patients with parafunctions to avoid potential risk of fracture.
2. If any inflammation or other allergic reactions occur on the patient, immediately discontinue use and seek medical advice.
3. Use local dust extractor, dust protective mask etc. while grinding or polishing this product to avoid harmful influence of the dust on the human body.
4. This product is intended for use by dental professionals only.

### DIRECTIONS FOR USE

SHOFU BLOCK HC is a highly cured material. Do NOT fire for finishing or additional build up.

1. Selection of block  
Select the proper shade and size of the mill block based on the required restoration.
2. Milling  
For fabrication follow the steps described in the instructions for use of the different CAD/CAM systems. Based on the scan data, model the restoration on the software to create data for milling.  
\* Use the porcelain mode/hybrid ceramic mode for milling this product instead of resin mode!

#### 3. Preparation

##### ➤ INLAY/ONLAY

A traditional inlay/onlay preparation design with no undercuts is recommended. Taper the cavity walls 3-5 degrees to the long axis of the preparation. All internal edges and angles should be round. A minimum occlusal reduction of 1.5 mm in the centric occlusion and all excursions is required.

##### ➤ LAMINATE VENEER

A standard reduction of the labial surface with app. 0.4 to 0.6 mm is recommended. The reduction of the incisal labial-lingual angle should be 0.5-1.5 mm.

Keep the preparation of the margins above the gingival tissues. Rounded shoulder or chamfer preparation with no undercuts should be used for all preparations.

##### ➤ FULL CROWN

A minimum axial reduction of 1.0 mm with a 3-5 degree taper and an incisal/occlusal reduction of at least 1.5 mm in the centric occlusion and all excursions is required. Shoulders must be extended to 1.0 mm lingual to the proximal contact area. All line angles should be rounded with no bevel lines.

#### 4. Contouring

Try the fit of the restoration to the preparation with light finger pressure.

Adjust contacts and occlusion, contouring with the appropriate rotary instruments (eg. Robot Points, Dura-White, Dura-Green, Super-Snap).

#### 5. Polishing

Smooth the surface and the occlusal details with appropriate polishers (eg. CeraMaster Coarse, CeraMaster, Super-Snap).

Pre-polish the restoration with the Al<sub>2</sub>O<sub>3</sub> impregnated polishing paste (DURA-POLISH) on a bristle brush with app. 15,000 min<sup>-1</sup>.

Apply the diamond impregnated polishing paste (DURA-POLISH DIA) on a bristle brush and polish the restoration for high gloss.

#### 6. Cleaning

Clean the polished restoration in an ultrasonic cleaner or with a steam cleaner. Dry gently with air syringe.

#### 7. Cementation

Sandblast the adhesive surface of the restoration with aluminium oxide 50 µm at a pressure of between 0.2 MPa and 0.3 MPa for about 10 sec. Clean the sandblasted surface with alcohol and dry with water free and oil free air. Hydrofluoric acid (HF) etching is not needed. Clean the prepared tooth in preparation for seating and bonding. Rinse and dry thoroughly, isolate from moisture and adjacent teeth. Cement the restoration with an adhesive resin cement (eg. ResiCem).

#### 8. Additions and modifications

- a) Roughen the surface to be modified with diamond points etc. or sandblast with 50 µm aluminium oxide.
- b) Clean the surface with alcohol and dry with water free and oil free air.
- c) Apply the primer for porcelain (SHOFU Porcelain Primer/ CERARESIN BOND) as described in the instructions for use.
- d) Apply composite resin (BEAUTIFIL II, BEAUTIFIL Flow, BEAUTIFIL Flow Plus, CERAMAGE and/or LITE ART) according to the individual requirements. Cure the composite resin following each manufacturer's instructions for use.
- e) Contour and polish following the instructions described above.

### NOTE ON USE

1. Use only abrasives intended for milling ceramics since SHOFU BLOCK HC is a ceramic based restorative material.
2. When cementing or characterizing the restoration or building up with composite resin, perform proper surface treatment following the instructions for use of each material in use.
3. For cementation of the restoration, sandblast the surface using aluminium oxide at a pressure of between 0.2 MPa and 0.3 MPa for about 10 sec, then cement the restoration using adhesive resin cement.
4. Do not use this product for any purposes other than specifically outlined in the INDICATIONS in these instructions for use.
5. Use this product within the expiration date indicated on the package.

### STORAGE

Avoid high temperatures and high humidity. Keep away from direct sunlight.