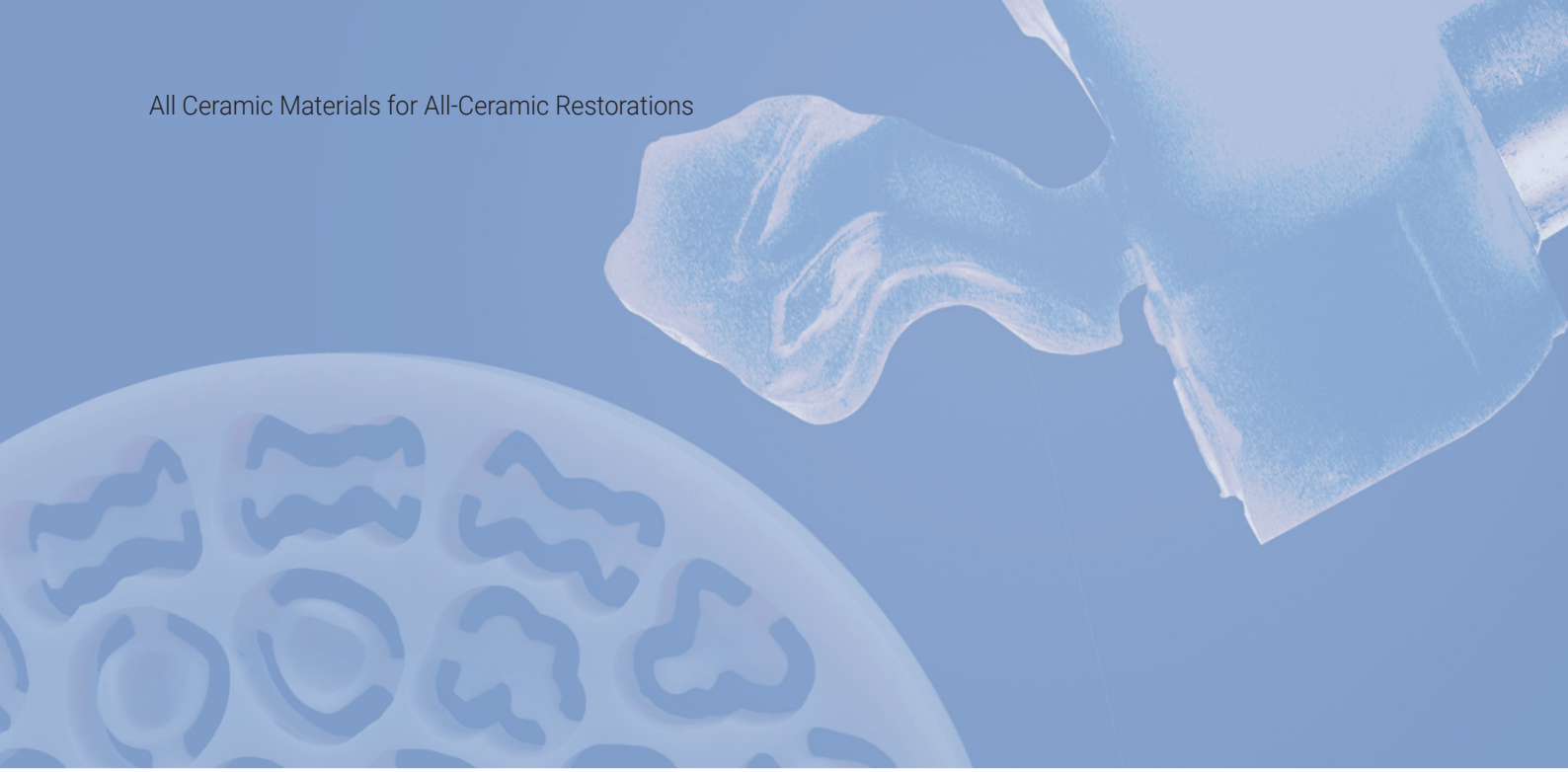
All Ceramic Materials for All-Ceramic Restorations



EN

Ceramic-based Hybrid Blocks & Disks

Amber® Mill H

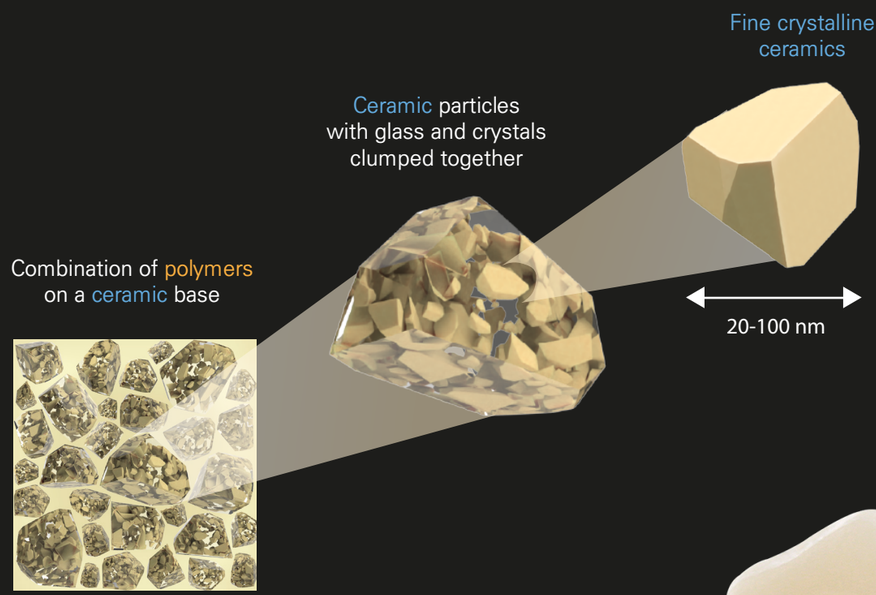
www.hassbio.com

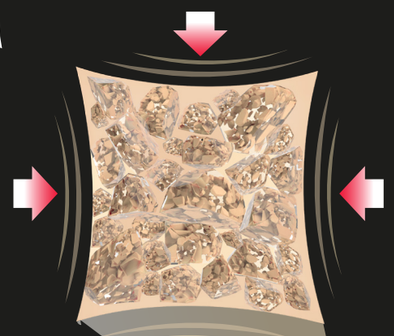
CE2195 RX Only

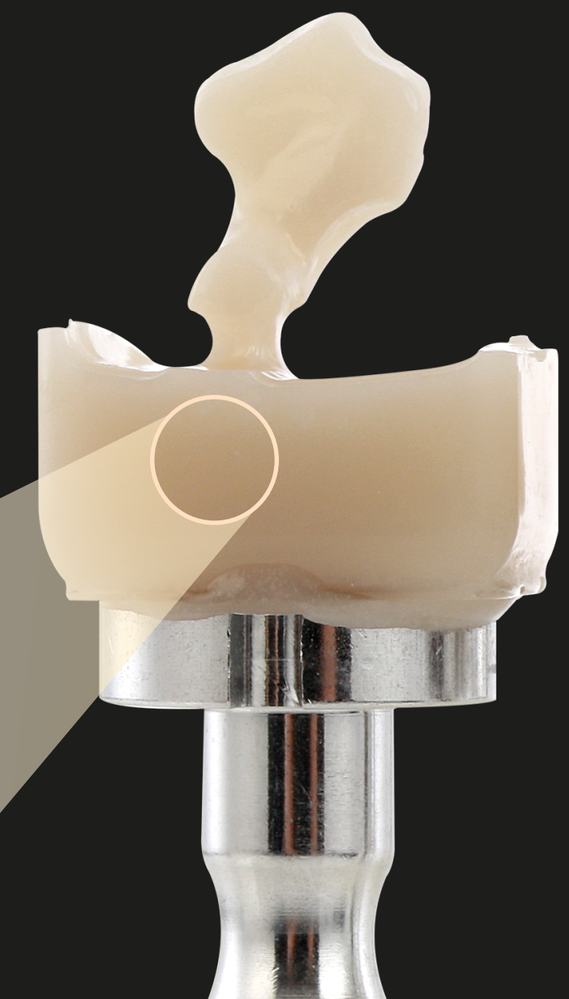
HASS | Human-Aid System Supplier

Ceramic and Polymer

Ingenious combinatorics



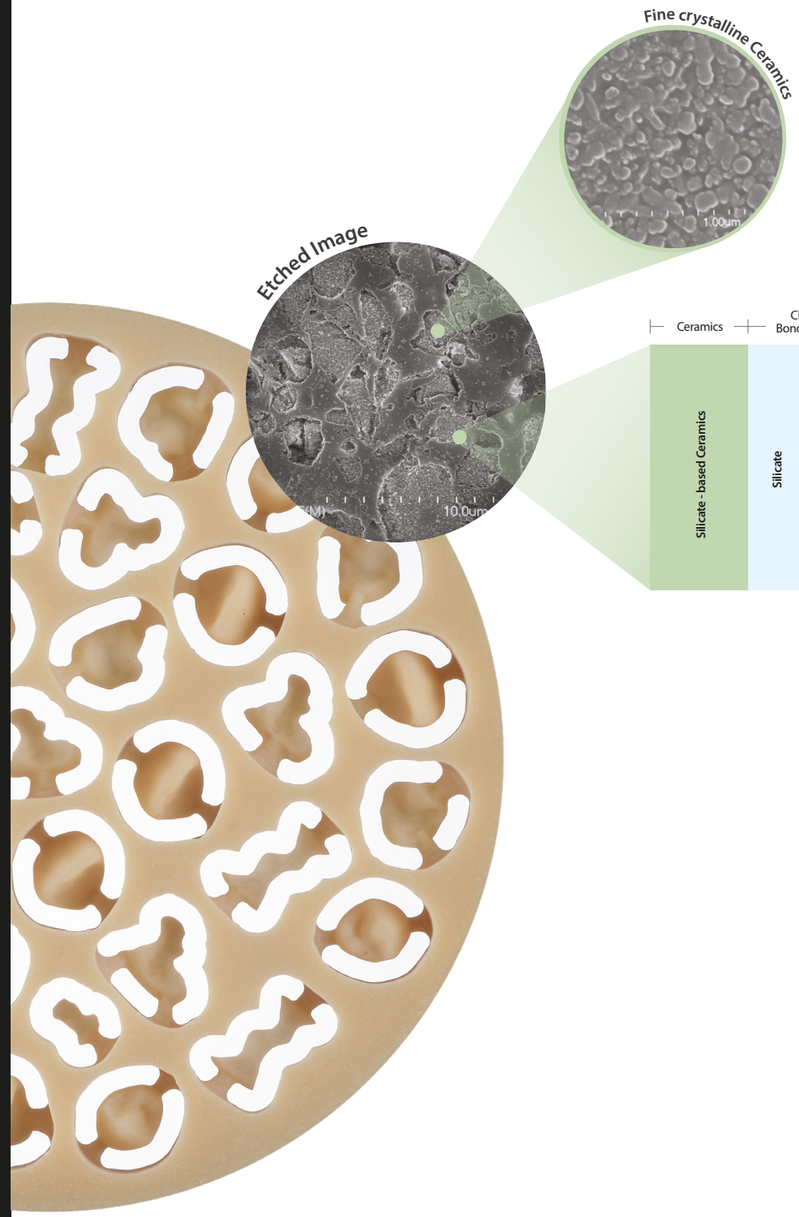




Ceramic-based Hybrid Blocks & Disks

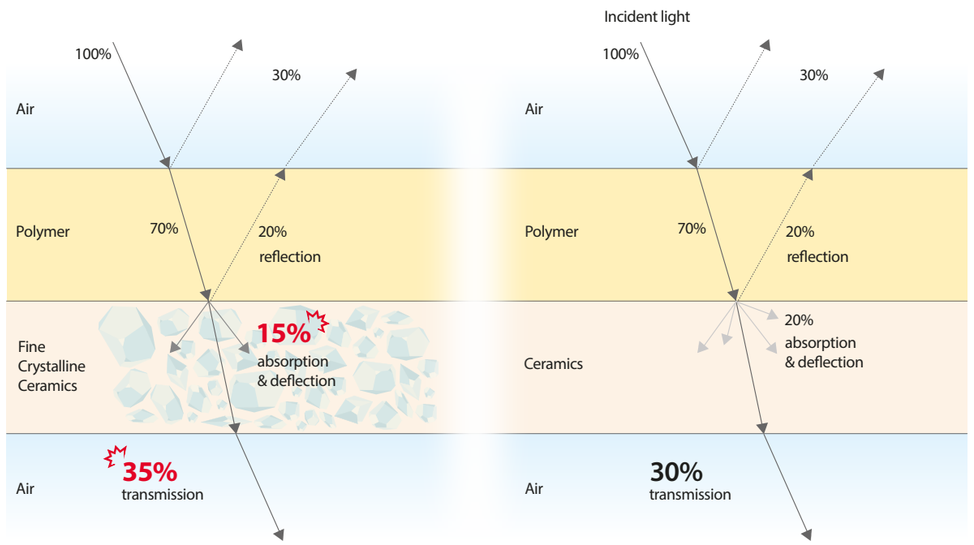
Amber® Mill H

The application of fine crystalline ceramics enables strong mechanical properties and aesthetics similar to natural teeth.



The effect of fine crystalline size 1

High light transmittance

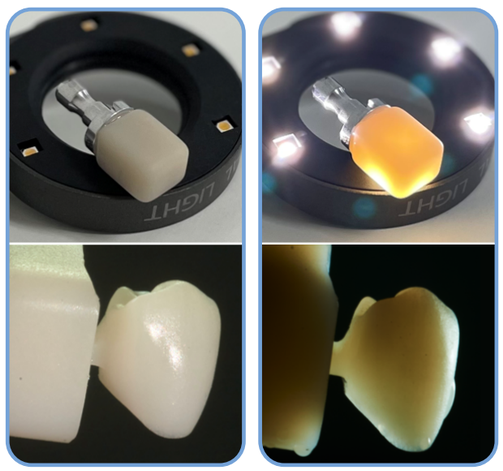


Amber® Mill H
HT

Conventional Hybrid
High Translucency

Fluorescence in reflected light

Opalescence seen in transmitted light

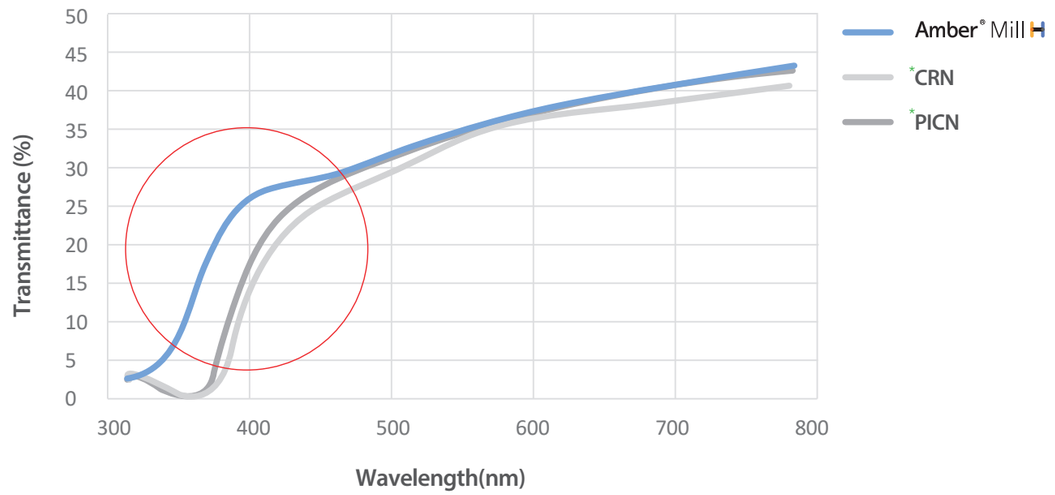


Incident Beam | Transmitted beam

During resin cement photopolymerization,

High light transmission is essential to ensure initial adhesion

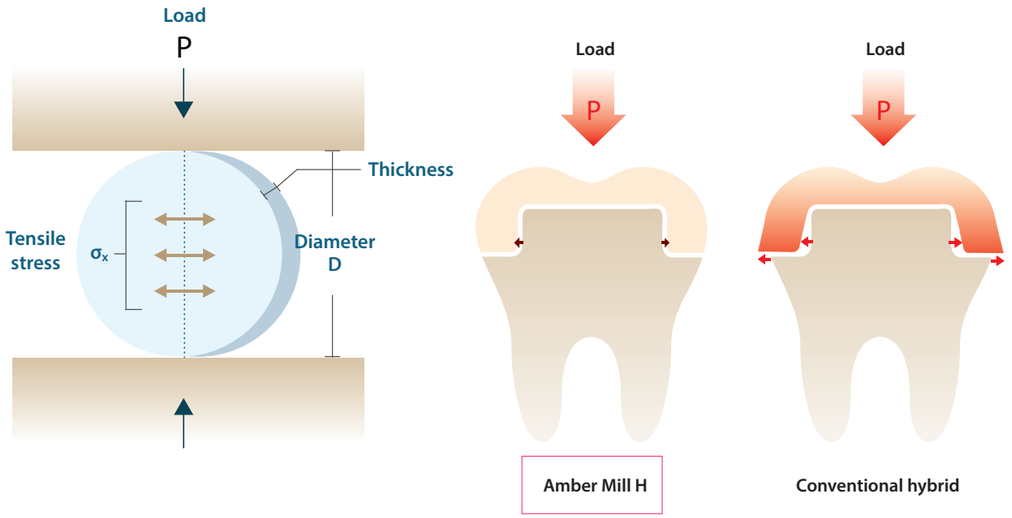
The high light transmittance allows for high initial adhesion during the photopolymerization process when light-curing.

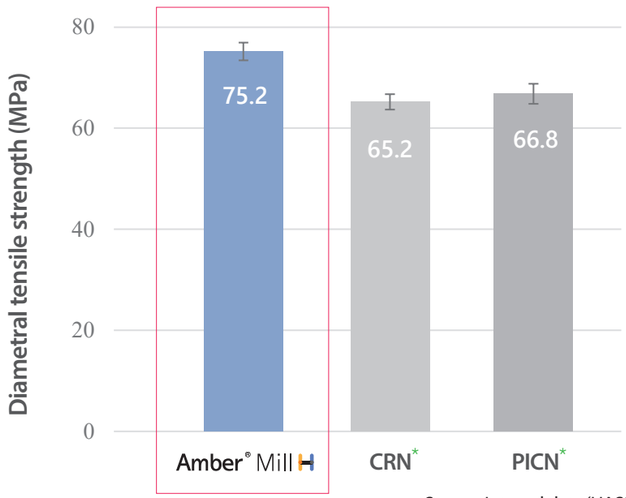


*CRN : composite resin nanoceramic
*PICN : polymer infiltrated ceramic network

High indirect tensile strength

The high indirect tensile strength of 75 MPa can help prevent prosthesis dislodgement.





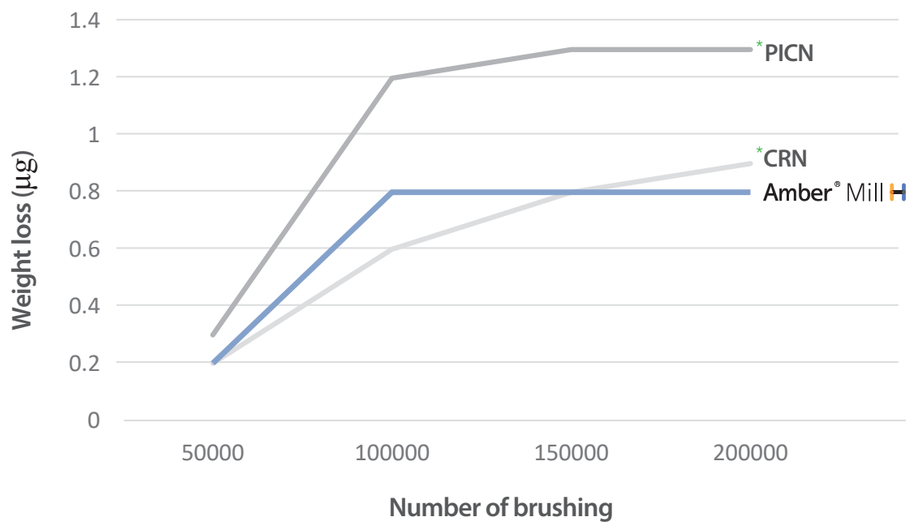
• Source: Internal data (HASS R&D)

*CRN : composite resin nanoceramic
*PICN : polymer infiltrated ceramic network

The effect of fine crystalline size 2

Proven abrasion resistance demonstrated by brushing test

The small crystallite size of Amber Mill H results in low weight loss.
Proven abrasion resistance in the brushing abrasion test (ISO/TR-14569-1 : 2007)

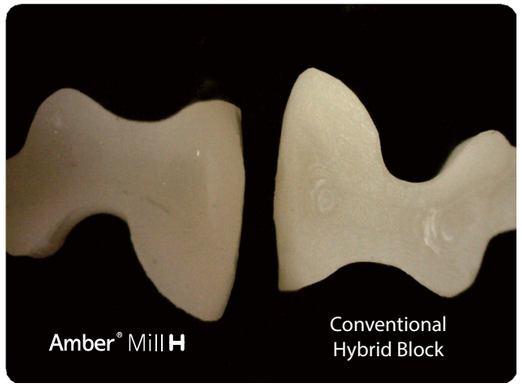


• Source: Internal data (HASS R&D)

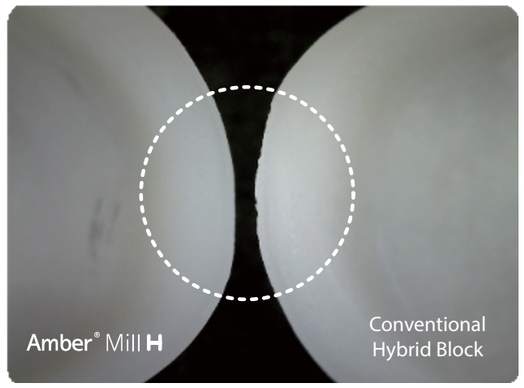
Precision milling, marginal area reproduction

Excellent margin fit

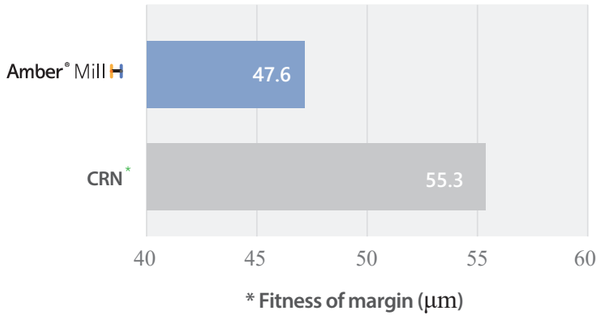
A small fit gap means that it mills well and can be machined precisely,
resulting in a very good fit at the margin (the interface between the tooth and the prosthesis).

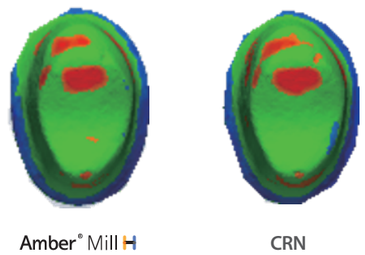


Inlay



Premolar



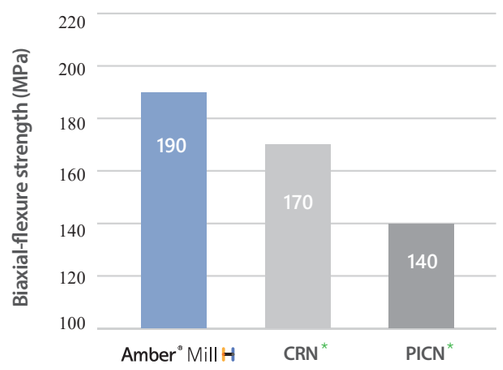


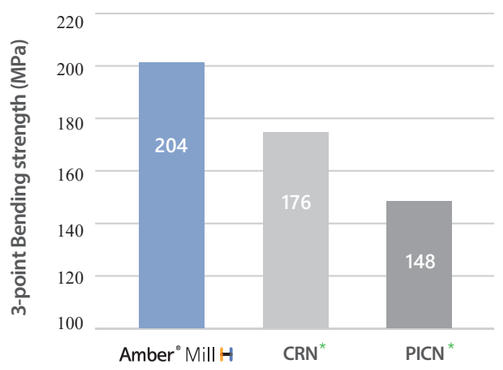
* Lower value means higher fitness of margin
* Source : Internal data(HASS R&D)

*CRN : composite resin nano ceramic

Excellent mechanical properties

Biaxial flexural strength 190MPa (ISO 6872)
3-point Bending strength 204MPa (ISO 4049)





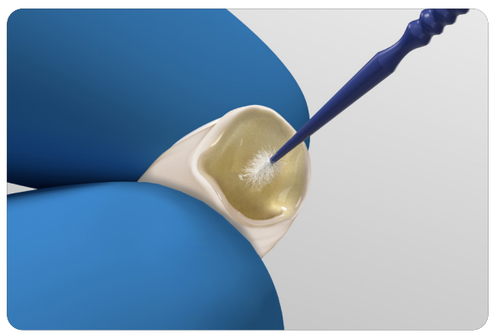
• Source: Internal data (HASS R&D)

*CRN : composite resin nanoceramic
*PICN : polymer infiltrated ceramic network

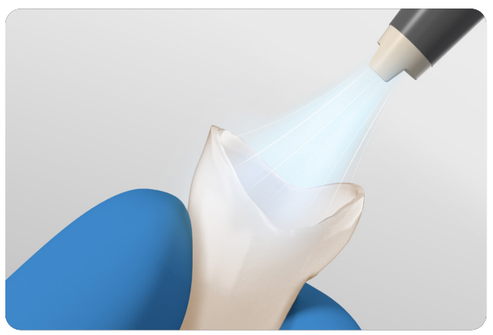
Both options are available

How to handle cementation

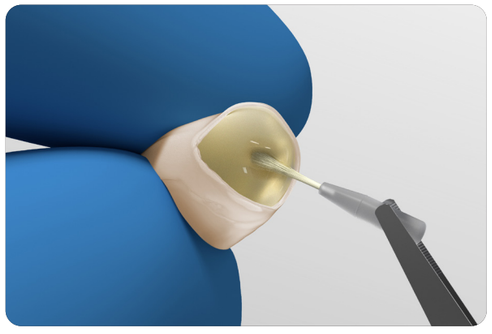
Option 1. Hydrofluoric Acid



(1) After preparation, etch the inner surface with hydrofluoric acid (5% HF) for 60 seconds.



(2) Wash thoroughly with water and air dry.

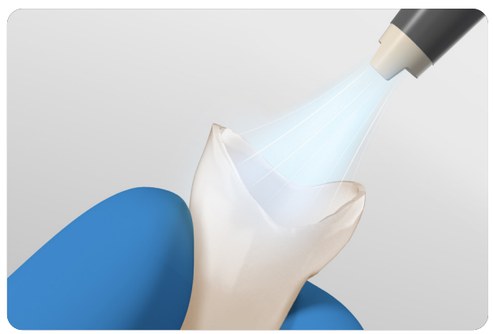


(3) After silanization, allow to air dry for 20 seconds. If necessary, use a bonding agent.

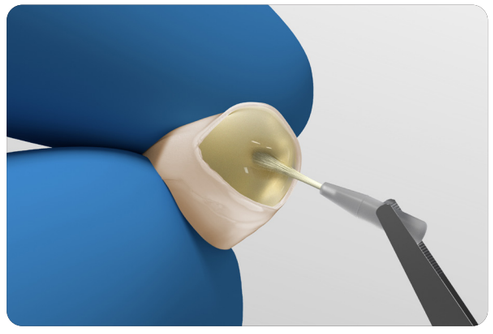
(4) Use self-adhesive resin cement to bond them together.

Option 2. Sandblasting

(1) Alumina with a size of 25 to 50 μm is used to form a rough surface at a pressure of 2 bar.



(2) Clean the inside with ethanol or an ultrasonic cleaner and dry thoroughly.



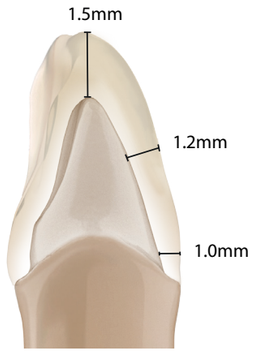
(3) After silane treatment, air dry thoroughly for 20 seconds. If necessary, use a bonding agent.

(4) Use self-adhesive resin cement to bond them together.

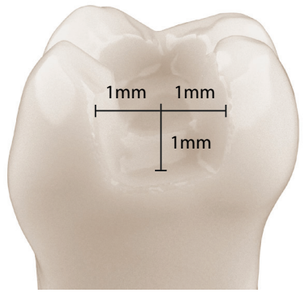
TIP !

! Be sure to observe the etching time, as over-etching can make the surface brittle.
! For Resin Cement, we recommend Self-cure or Light-cure Resin Cement.

Preparation Guide



Anterior Crown



Inlay/Onlay

Indications

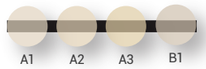
- Inlays
- Onlays
- Anterior Single Crowns
- Premolar Single Crowns

Product Line-up

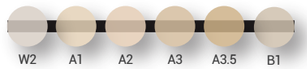
Amber® Mill H		Dimension (mm) W x D x H	Pcs / Pack
	C10	10 × 8 × 15	5 blocks
	C12	12 × 10 × 15	
	C14	14 × 12 × 18	
	9808	Ø98 × 8T	1 disk
	9810	Ø98 × 10T	

Available Shades

HT(High Translucency)



LT(Low Translucency)



Ceramic-based Hybrid Blocks & Disks

Amber® Mill H

Fine crystalline

Ceramic based hybrid

Ceramic-based Hybrid Blocks & Disks

Amber® Mill H

- Fine crystalline ceramic base, Ceramic and polymer Ingenious combinatorics
- During resin cement photopolymerization, High light transmission to ensure initial adhesion
- Various cement pretreatment options (Hydrofluoric Acid or Sandblasting)
- The high indirect tensile strength of 75 MPa can help prevent prosthesis dislodgement.

HASS Corporation
77-14, Gwahakdanji-ro, Gangneung-si, Gangwon-do,
KOREA 25452
Tel: +82-70-7712-1300 / Fax: +82-33-644-1231
Customer Support : +82-2-2083-1367
E-mail : hasscorp@hassbio.com
Website : www.hassbio.com

This material is designed for usage in dentistry. Follow instructions HASS is not liable for any loss caused by failure to comply with regulation or scope of indication. Users are responsible for testing products to verify the compatibility for any usage which are not written in the instructions. The explanations and data contained within do not carry any guarantees and/or obligations.
All enclosed recommendations and restrictions apply when used with products from other manufacturers.

AMH_BR_IM_EN_240320