



EN

Nano-Crystalline Hybrid Ceramics Block

Amber[®] Mill 



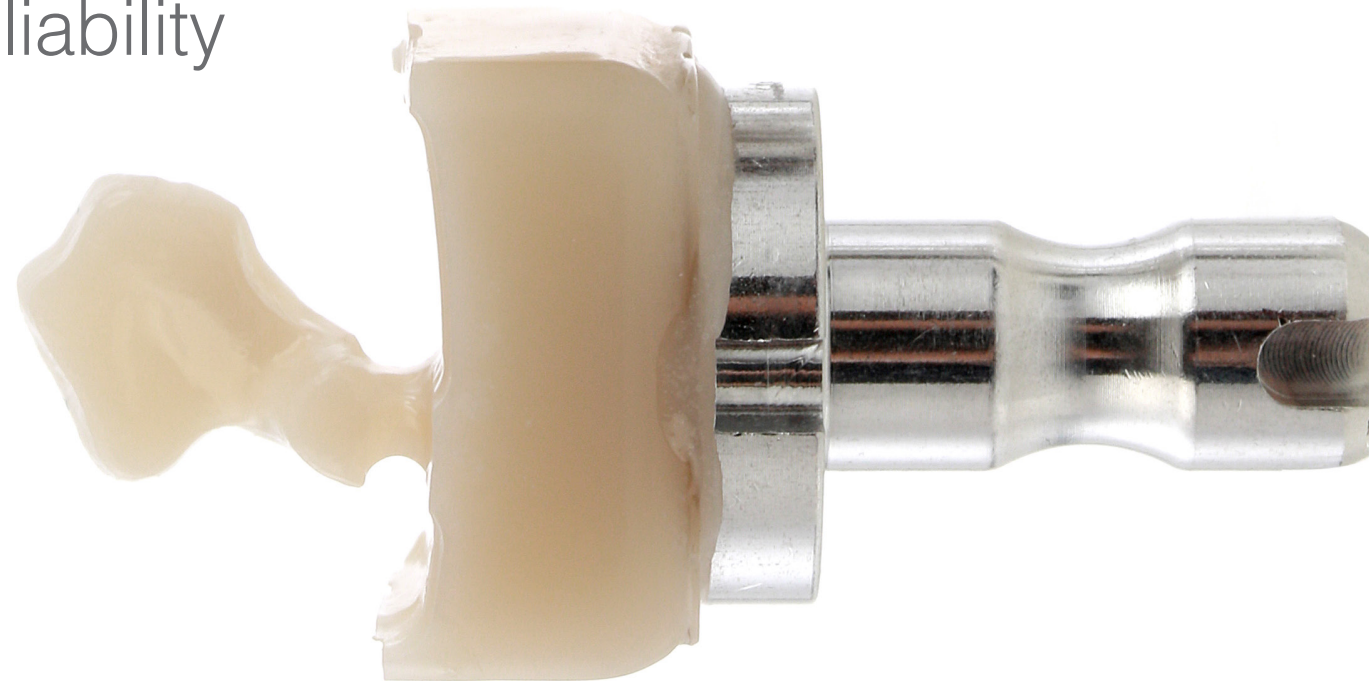
www.hassbio.com



RX Only

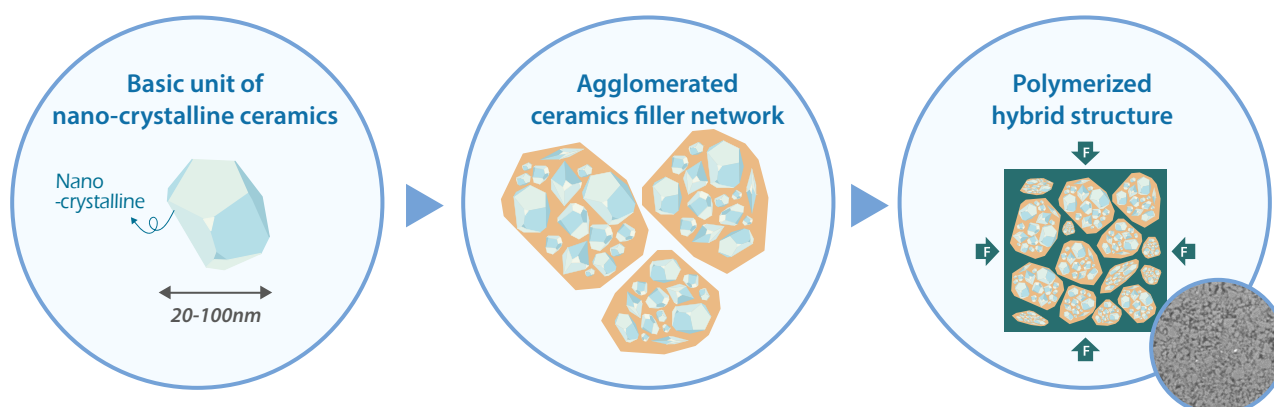
 **HASS** | Human-Aid
System Supplier

User Friendly
Mechanical Reliability
Aesthetic



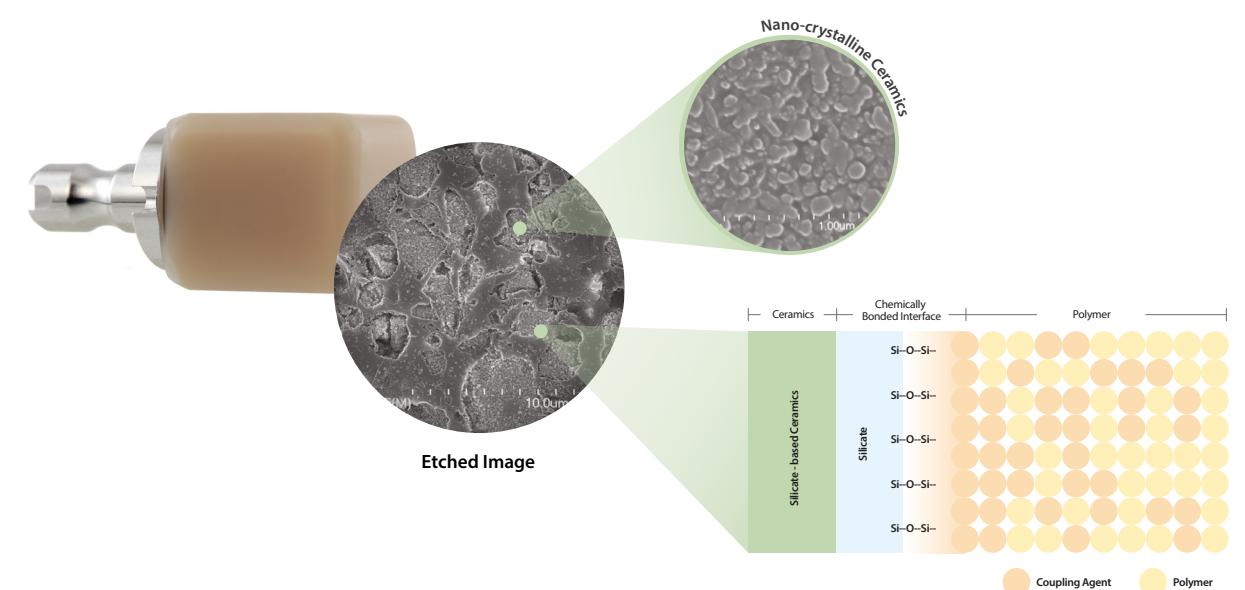
Cross-link structure

With the realization of innovative cross-link technology between Nano-Crystalline ceramic and Polymer, Amber Mill H have different features from conventional hybrid (CRN, PICN) products.



filler shape

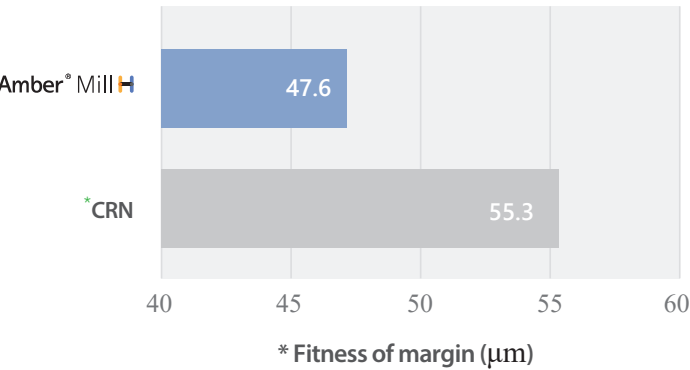
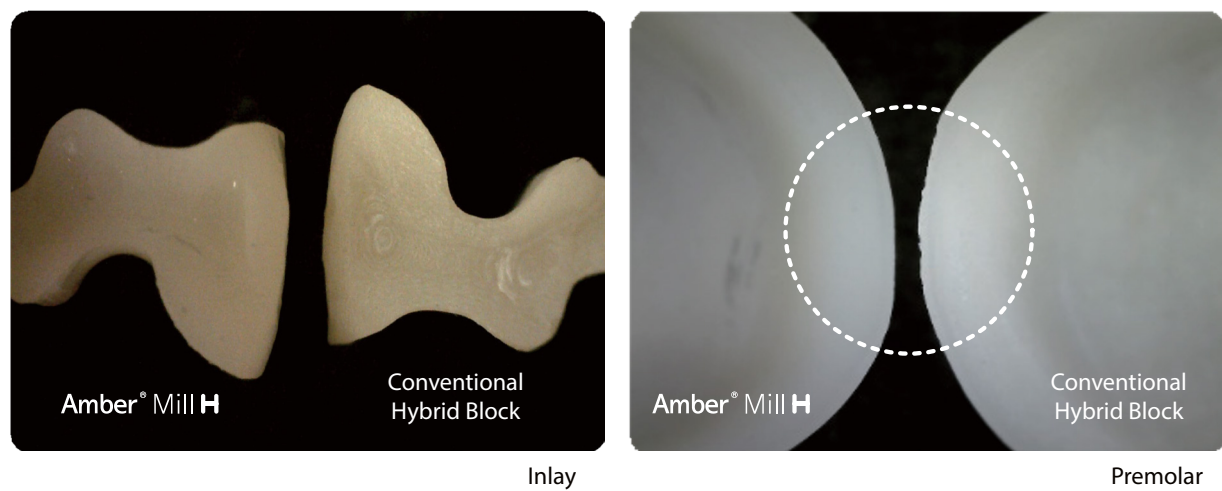
Nano-crystalline ceramics realizes a strong mechanical property and natural teeth-like esthetic.



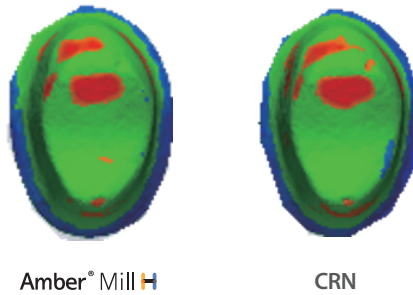
User Friendly

Margin fitness accuracy

Excellent margin fit

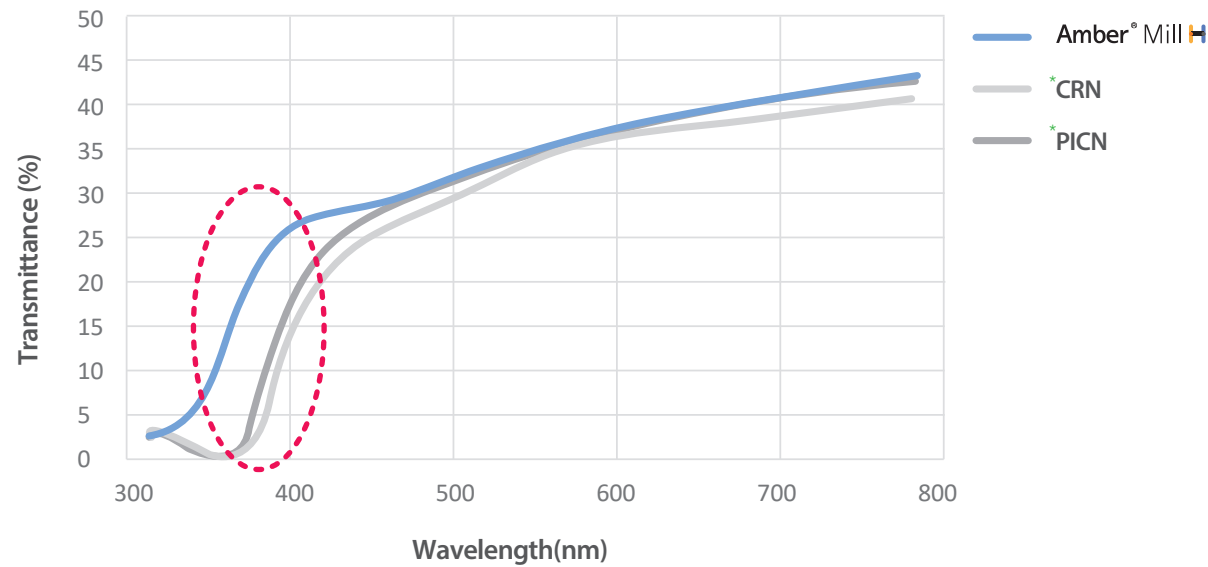


* Lower value means higher fitness of margin
* Source : Internal data(HASS R&D)



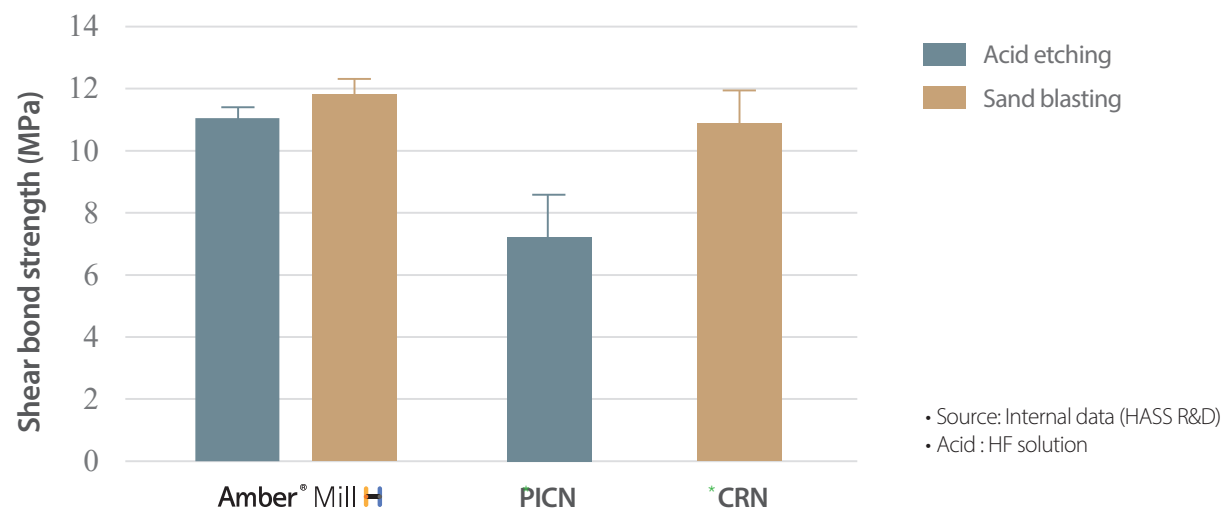
Light transmittance

Initial bonding strength in the light polymerization process



Various preconditioning options for bonding

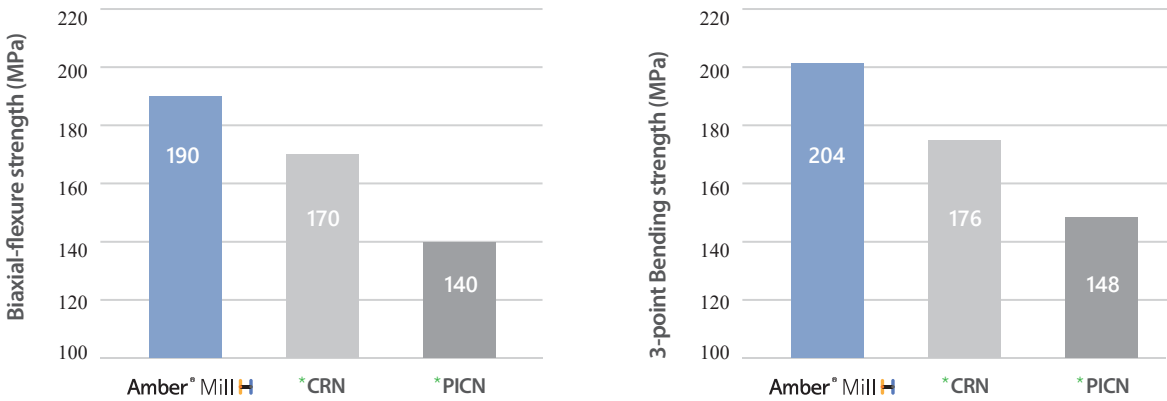
Various preconditioning options, like HF etching or sandblasting, are available.



Mechanical reliability

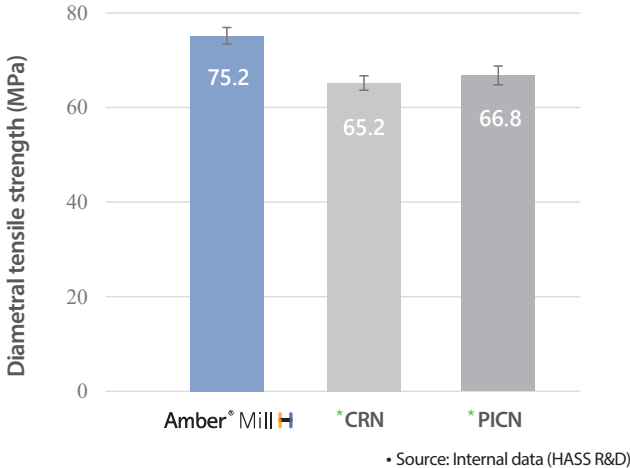
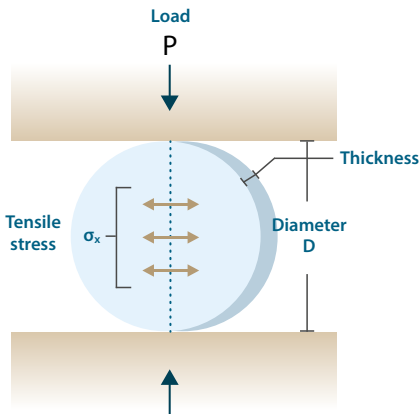
Superb mechanical property

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



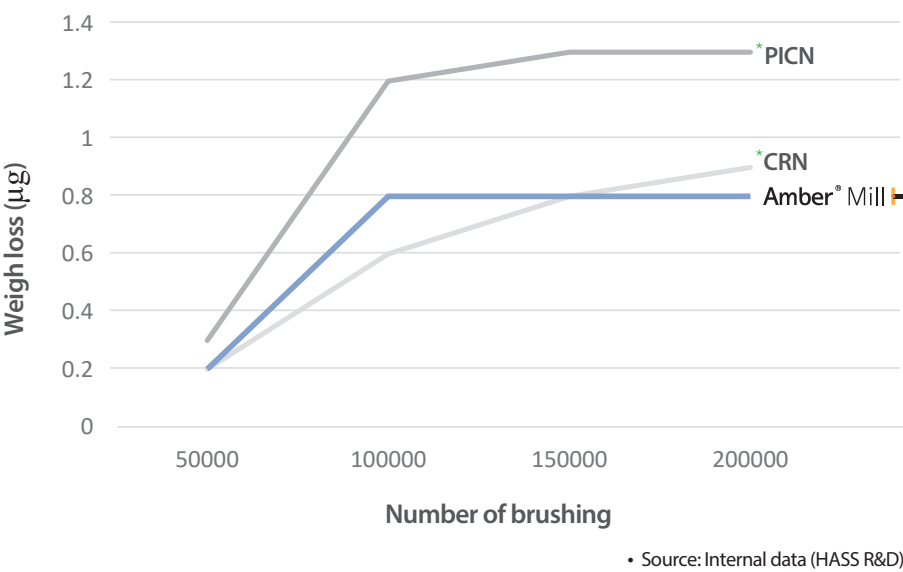
Indirect tensile strength

Diametral tensile strength of 75MPa



Wear resistance

Wear resistance proved by brushing test (ISO/TR-14569-1 : 2007)

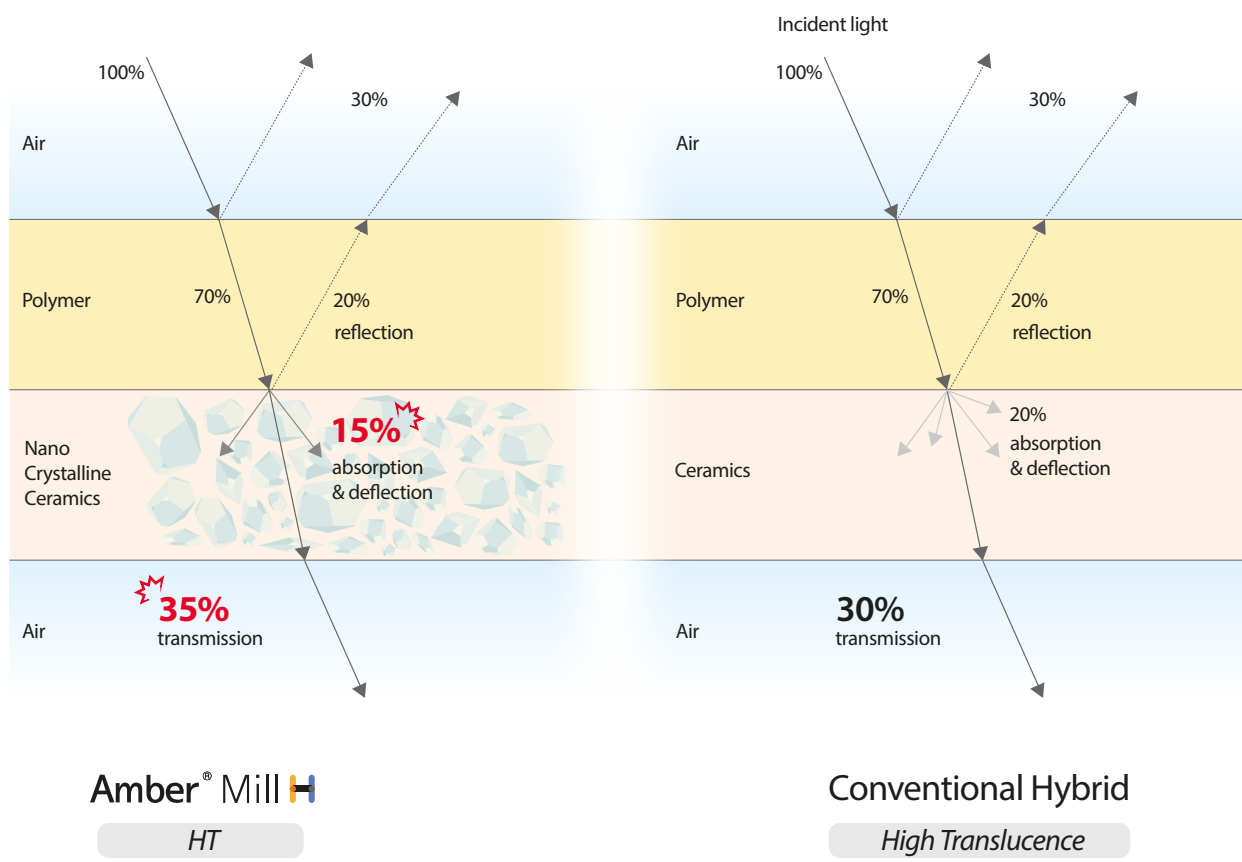


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Aesthetic

Light transmittance

A high light transmittance of 35% achieves good esthetic.



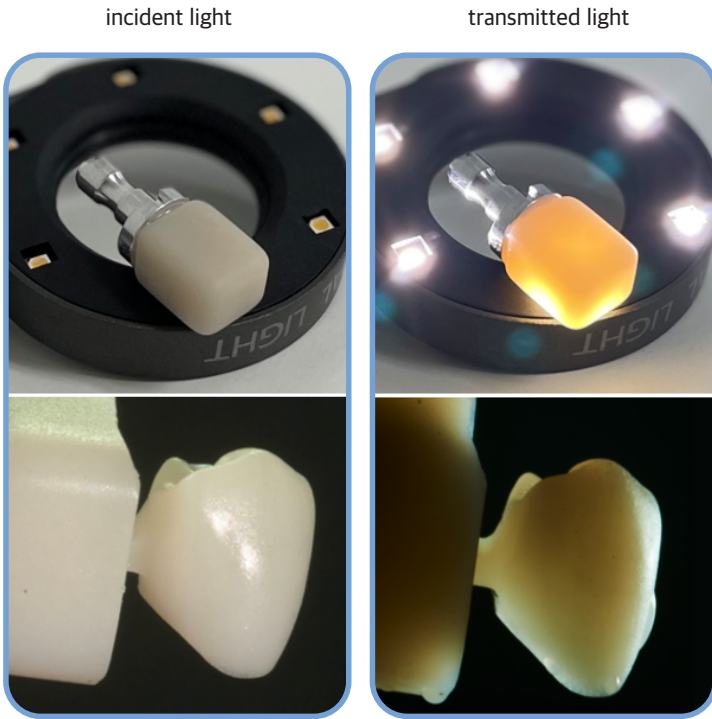
Fluorescence

fluorescence in reflected light



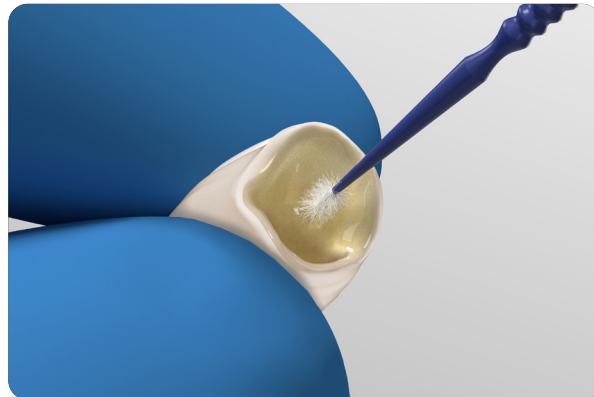
Opalescence

Opalescence in transmitted light

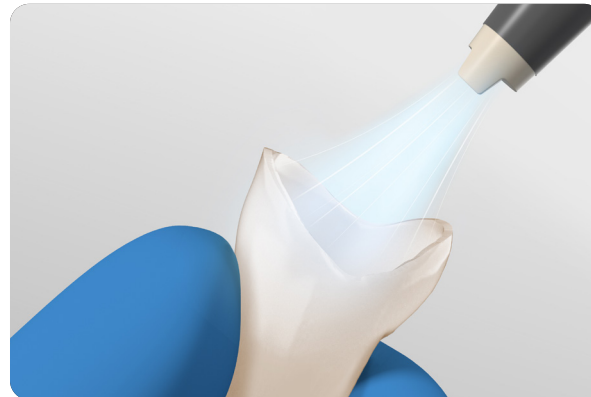


Cementation Procedure

Option 1. Acid Etching



(1) After try-in, etch the inner surface with 5% hydrofluoric for 60 seconds.

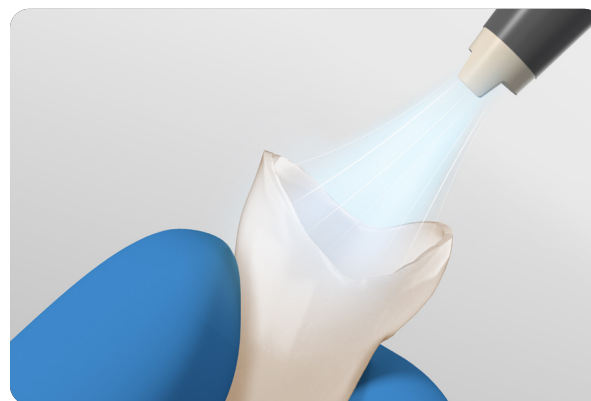


(2) Rinse out with water and blow air to dry.

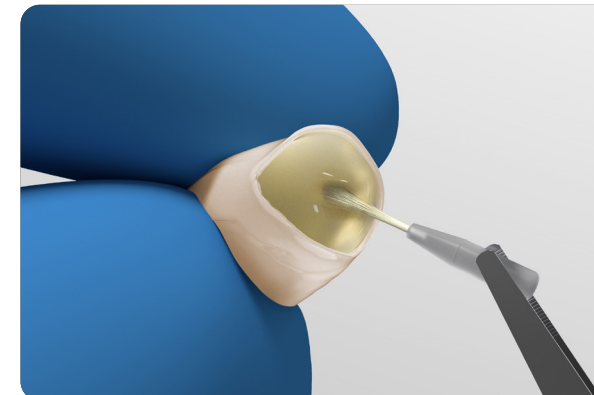
Option 2. Sandblasting



(1) Use 25~50 alumina particle at the pressure of 2 bar to make a rough surface.



(2) Clean out the inner surface with ethanol or ultrasonic cleaner and blow air to dry.



(3) Apply silane to the surface and blow air for 20 seconds to dry.

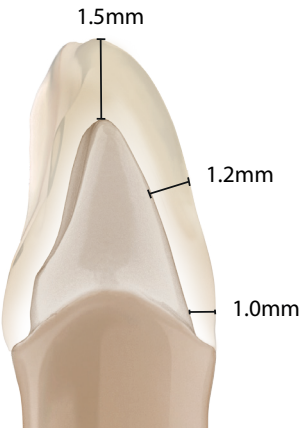


(4) Use self adhesive resin cement to bond.

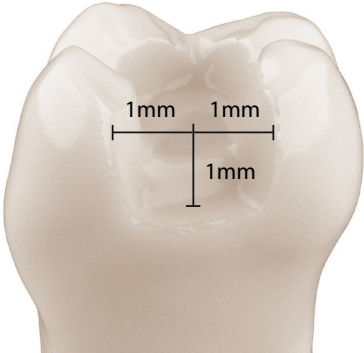
TIP !

- ! Comply with the recommended etching time to avoid over-etching.
- ! Follow the manufacturer's guideline when using silane.

Preparation Guide



Anterior Crown



Inlay/Onlay

Round Shoulder

Deep chamfer

Knife-edge

Jump margin

Undercut

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	

Available Shades

HT(High Translucency)

LT(Low Translucency)



Amber[®] Mill **H**



Amber[®] Mill

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

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