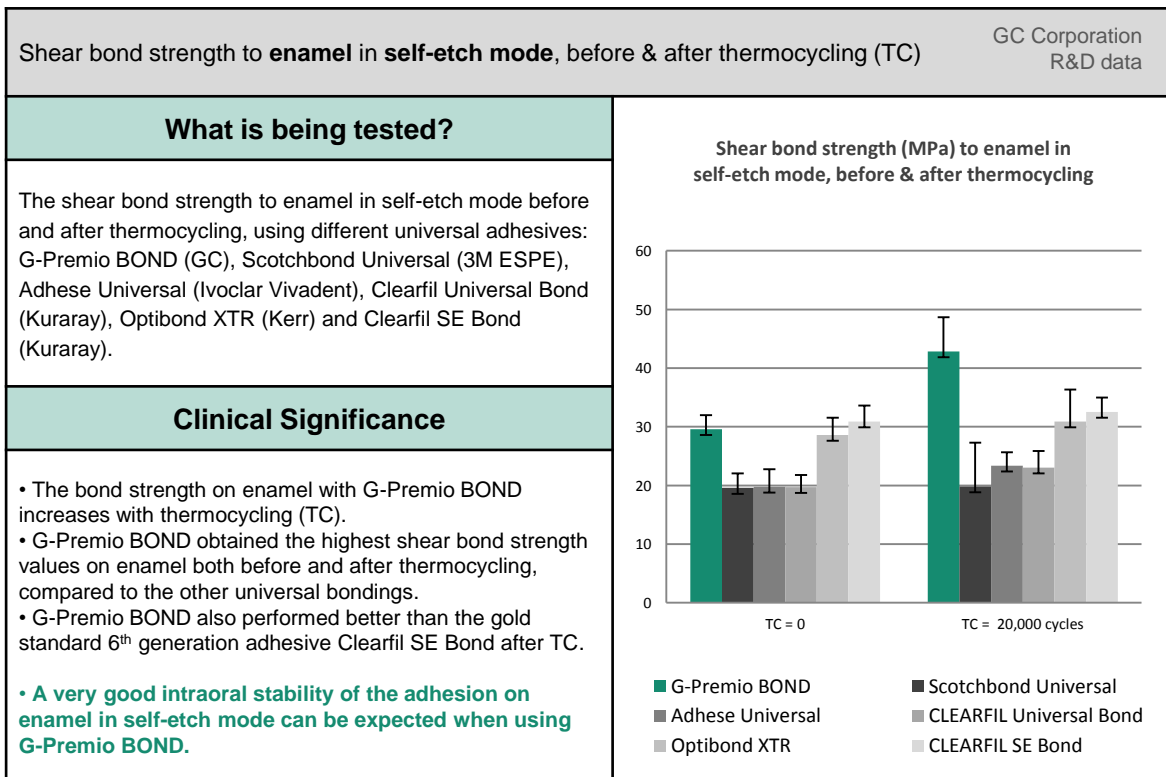
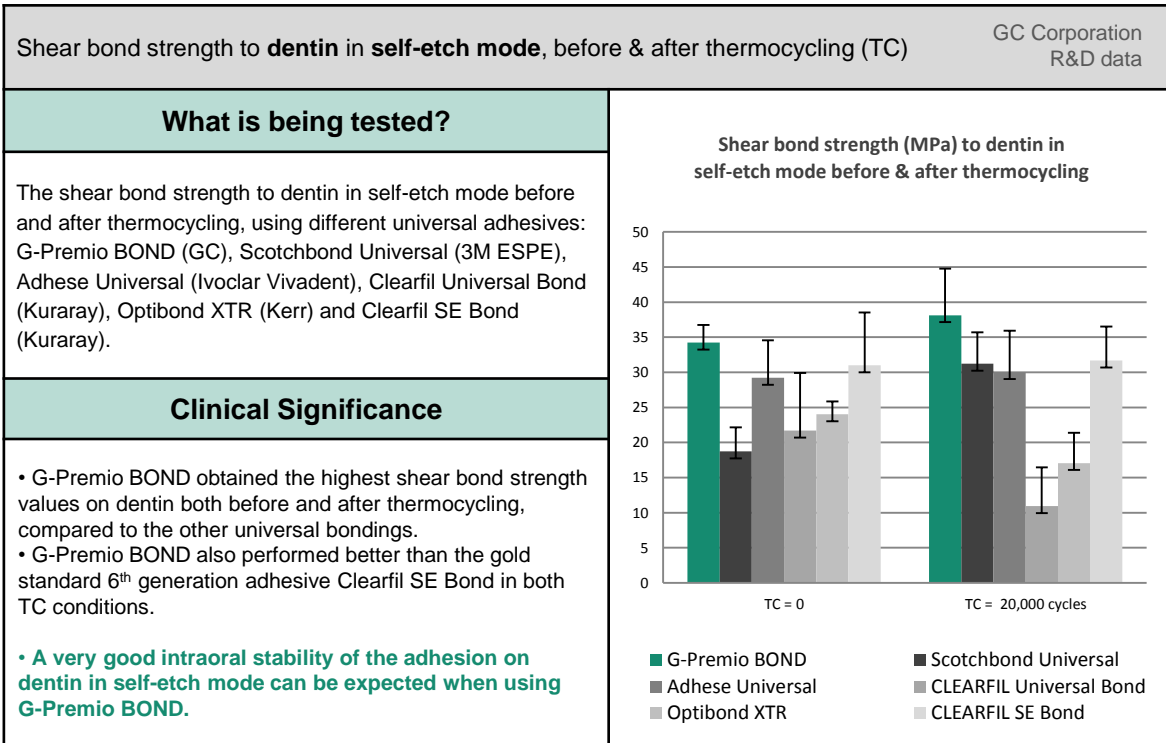




## G-Premio BOND from GC





Shear bond strength to **enamel and dentin** in **total-etch mode** before & after thermocycling (TC)

GC Corporation  
R&D data

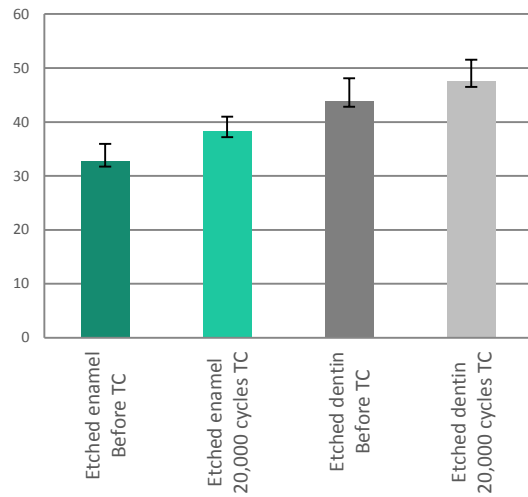
**What is being tested?**

The shear bond strength to tooth structure (enamel and dentin) in total-etch mode, before and after thermocycling using G-Premio BOND (GC).

**Clinical Significance**

- G-Premio BOND presents high adhesion values to etched enamel and etched dentin which both increase with thermocycling, showing a good stability of the bond to tooth structure in total-etch mode.
- The excellent shear bond strength to etched dentin after thermocycling suggests that G-Premio BOND can efficiently infiltrate etched dentin and create a stable adhesion.
- **This data confirms that the one-bottle universal bonding G-Premio BOND should perform well over time in total-etch mode.**

Shear bond strength (MPa) to etched enamel and dentin, before and after thermocycling (TC)



Shear bond strength to **indirect substrates** after thermocycling

GC Corporation  
R&D data

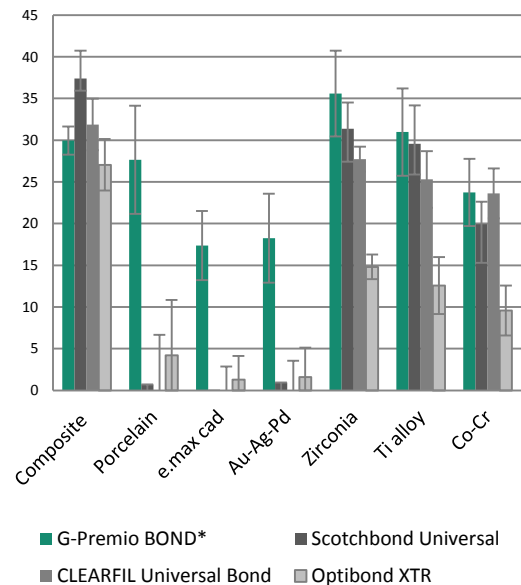
**What is being tested?**

The shear bond strength to indirect substrates (composite, porcelain, e.max, precious metals, zirconia and non-precious metals) using different universal adhesives: G-Premio BOND (GC), Scotchbond Universal (3M ESPE), Clearfil Universal Bond (Kuraray) and Optibond XTR (Kerr).

**Clinical Significance**

- G-Premio BOND exhibits a high bond strength to all tested indirect substrates after thermocycling, showing a reliable adhesion to all materials.
- All other universal bondings (used without separate silane as per their respective IFUs) showed close to zero adhesion to porcelain and e.max after thermocycling.
- Thanks to the combination with Ceramic Primer II, G-Premio BOND shows a stable adhesion to all types of ceramics.
- G-Premio BOND is the only adhesive tested which shows a stable bond to precious metals, thanks to the MDTP monomer in its formulation.
- **This study shows that G-Premio BOND is effective to repair all types of indirect substrates. On hybrid and glass ceramics, it should be used in combination with Ceramic Primer II.**

Shear bond strength (MPa) to indirect substrates after thermocycling (5.000 cycles)



\* Used in combination with Ceramic Primer II