



References – *in vitro* studies

EQUIA Forte HT®

TITLE	Bond strength to tooth structure and flexural properties of a new precapsulated glass-ionomer cement for filling
REFERENCE	Irie M <i>et al</i> , The J of the Jap Soc for Dent Mater and Devices Vol.37 Special Issue 72, p.89 (2018).
EQUIA Forte HT (named Equia 3 in this study) presented higher shear bond strength to enamel (11.4 MPa) and to dentin (13 MPa), greater flexural strength (36.6 MPa) and modulus of elasticity (16.8 GPa) when compared to Ketac Universal.	

TITLE	Comparative radiopacity of different posterior restorative materials
REFERENCE	S. Turkun <i>et al</i> , CED-IADR, Madrid, 2019. https://www.ced-iadr2019.com/Madrid_Abstract_BOOK_Sept_7.pdf
Radiopacity values presented by EQUIA Forte HT (2.24±0.22) are in agreement with ISO requirements.	

TITLE	Evaluation of mechanical properties of new GI-restorative (EQUIA Forte HT)
REFERENCE	Shimada Y <i>et al</i> , J Dent Res Vol 98 (Spec Iss A): 3662 https://iadr2019.zerista.com/event/member/582696
EQUIA Forte HT presented high flexural strength (45.1 MPa) and high translucency (55.9).	

TITLE	Comparison of compressive strength and fluoride release of GIC restoratives
REFERENCE	Mori D <i>et al</i> , J Dent Res Vol 99 (Spec Iss A): 1856, https://iadr2020.zerista.com/event/member/677908
EQUIA Forte HT presented the highest strength and the highest amount of fluoride release when compared to other materials (Ketac Universal, Riva Self cure, Chemfil Rock) in different time intervals.	



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TITLE	Stabilization time of chemical bonds in restorative glass-ionomer/glass-hybrid cements
REFERENCE	Pascotto R <i>et al</i> , J Dent Res Vol 99 (Spec Iss A): 1051, https://iadr2020.zerista.com/event/member/679151
Time for chemical bonds stabilization of EQUIA Forte HT was 740s, while for Riva it was 393s. The longer it takes to stabilize the chemical bonds, the greater the amount of chemical bonds, improving the mechanical properties.	

TITLE	Compression fracture resistance of four different glass-ionomer cements
REFERENCE	Glavina D <i>et al</i> , J Dent Res Vol 99 (Spec Iss A): 1284, https://iadr2020.zerista.com/event/member/677597
EQUIA Forte HT presented significantly higher fracture resistance than other materials (EQUIA Forte HT 245,3N; Ketac Molar 140,7N; IonoStar Molar 114,5N).	

TITLE	Compressive strength, microhardness, acid erosion of restorative glass hybrid/glass-ionomer cements
REFERENCE	Navarro M <i>et al</i> , J Dent Res Vol 99 (Spec Iss A):1310, https://iadr2020.zerista.com/event/member/679417
EQUIA Forte HT presented the highest values for compressive strength (207.58MPa) when compared to other groups. Microhardness values were 130.95KHN, higher than those of Ketac Molar. No difference on the acid-erosion was detected among the groups.	

TITLE	The influence of surface resin coating on the color stability of restorative glass-ionomer /glass hybrid cements
REFERENCE	Menezes-Silva R <i>et al</i> , J Dent Res Vol 99 (Spec Iss A):1312, https://iadr2020.zerista.com/event/member/679419
The surface coating improved color stability overtime. Ketac Universal presented significant color alterations when compared to EQUIA Forte HT.	



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TITLE	Mechanical and optical properties of a novel bulk fill glass hybrid restorative dental material
REFERENCE	Shahrooz S <i>et al</i> , J Dent Res Vol 99 (Spec Iss A): 3382, https://iadr2020.zerista.com/event/member/677755
EQUIA Forte HT presented outstanding translucency and flexural strength.	

TITLE	Effect of Coca-Cola on microhardness of glass-hybrid and glass ionomer materials
REFERENCE	Baraba A <i>et al</i> , J Dent Res Vol 99 (Spec Iss A): 1313, https://iadr2020.zerista.com/event/member/679420
After 3 months, microhardness of EQUIA Forte HT (with and without coat) was not affected by the exposure to Coca-Cola .	