

The application time of silane influences the adhesive bond between silicate ceramics and luting resin composites

Surface free energy of all tested groups after silanization

Table S1. Results for surface free energy, dispersive and polar component as mean of all tested specimen for lithium disilicate ceramic (LDS) and feldspar ceramic (FSC) for each application time of the silane coupling agents Monobond Plus (MBP) and Clearfil Ceramic Primer Plus (CCP); capital letters indicate significant differences between silane application times within the respective group; SD: standard deviation; 95%-CI: confidence interval.

Material and Silanization			Dispersive component / mN/m			Polar component / mN/m			Total SFE / mN/m		
Group	Silan. / s	Code	Mean \pm SD	95%-CI	$p < 0.05$	Mean \pm SD	95%-CI	$p < 0.05$	Mean \pm SD	95%-CI	$p < 0.05$
LDS-MBP	0	0	38.2 \pm 0.9	(37.3; 39.0)	ABCDE	32.0 \pm 1.9	(30.3; 33.7)	ABCDE	70.1 \pm 1.3	(69.0; 71.3)	BCDE
	5	A	48.4 \pm 1.3	(47.1; 49.6)	0E	21.5 \pm 2.0	(19.7; 23.3)	0BCDE	69.8 \pm 2.2	(67.8; 71.9)	BCDE
	15	B	48.2 \pm 1.1	(46.8; 49.1)	0E	12.4 \pm 1.6	(10.5; 14.1)	0AE	60.5 \pm 2.0	(58.1; 62.4)	0A
	30	C	49.8 \pm 0.6	(49.1; 50.4)	0DE	10.5 \pm 1.2	(9.1; 11.9)	0AE	60.3 \pm 1.4	(58.6; 61.9)	0A
	60	D	47.4 \pm 1.6	(45.5; 48.9)	0CE	12.8 \pm 1.5	(11.6; 12.9)	0AE	60.1 \pm 2.1	(58.2; 60.7)	0A
	180	E	44.9 \pm 1.2	(43.8; 46.0)	0ABCD	15.4 \pm 0.7	(14.7; 16.1)	0ABCD	60.3 \pm 1.0	(59.3; 61.2)	0A
LDS-CCP	0	0	38.3 \pm 0.5	(37.9; 38.7)	ABCDE	35.2 \pm 1.7	(33.6; 36.7)	ABCDE	73.5 \pm 1.4	(72.2; 74.7)	ABCDE
	5	A	45.9 \pm 0.1	(45.8; 46.0)	0E	15.5 \pm 1.0	(14.5; 16.4)	0BCDE	61.4 \pm 1.1	(60.3; 62.4)	0BCDE
	15	B	45.9 \pm 0.2	(45.7; 46.1)	0E	22.9 \pm 1.7	(21.1; 24.7)	0A	68.8 \pm 1.8	(66.9; 70.8)	0A
	30	C	45.7 \pm 0.4	(45.3; 46.2)	0E	20.4 \pm 1.3	(19.1; 21.7)	0A	66.1 \pm 1.3	(64.8; 67.5)	0A
	60	D	45.7 \pm 0.2	(45.6; 45.9)	0E	22.3 \pm 1.5	(20.8; 23.9)	0A	68.1 \pm 1.4	(66.6; 69.5)	0A
	180	E	47.3 \pm 0.6	(46.8; 47.8)	0ABCD	21.9 \pm 3.2	(19.0; 24.8)	0A	69.2 \pm 3.2	(66.3; 72.1)	0A
FSC-MBP	0	0	40.2 \pm 0.8	(39.5; 41.0)	ABCDE	34.0 \pm 0.6	(33.5; 34.5)	ABCDE	74.2 \pm 0.7	(73.6; 74.8)	ABCDE
	5	A	47.6 \pm 1.2	(46.5; 48.7)	0E	9.5 \pm 1.0	(8.5; 10.5)	0CDE	57.1 \pm 1.4	(55.8; 58.4)	0CD
	15	B	47.5 \pm 0.7	(46.7; 48.0)	0E	9.8 \pm 1.3	(8.5; 10.5)	0CDE	57.3 \pm 1.7	(55.5; 58.2)	0CD
	30	C	48.1 \pm 0.5	(47.6; 48.6)	0E	12.7 \pm 1.1	(11.5; 13.9)	0AB	60.8 \pm 1.0	(59.7; 61.8)	0AB
	60	D	47.6 \pm 0.8	(46.6; 48.5)	0E	12.7 \pm 1.7	(10.8; 14.7)	0AB	60.3 \pm 1.1	(59.0; 61.6)	0AB
	180	E	46.0 \pm 0.1	(45.8; 46.1)	0ABCD	12.8 \pm 1.4	(11.4; 14.1)	0AB	58.7 \pm 1.5	(57.4; 60.1)	0
FSC-CCP	0	0	39.3 \pm 1.0	(38.4; 40.3)	ABCDE	31.9 \pm 0.9	(31.1; 32.7)	ABCDE	71.2 \pm 0.7	(70.6; 71.9)	ABCDE
	5	A	46.3 \pm 0.3	(46.0; 46.5)	0E	18.5 \pm 1.1	(17.5; 19.5)	0BCD	64.7 \pm 1.0	(63.8; 65.7)	0BCD
	15	B	46.1 \pm 0.2	(45.9; 46.2)	0E	15.0 \pm 1.7	(13.3; 17.1)	0AE	61.1 \pm 1.6	(59.4; 63.1)	0A
	30	C	46.2 \pm 0.3	(45.8; 46.5)	0E	14.0 \pm 1.4	(12.8; 15.6)	0AE	60.1 \pm 1.2	(59.2; 61.5)	0AE
	60	D	46.2 \pm 0.1	(46.2; 46.3)	0E	15.8 \pm 1.8	(13.8; 17.9)	0A	62.1 \pm 1.8	(60.0; 64.1)	0A
	180	E	45.7 \pm 0.2	(45.5; 45.9)	0ABCD	17.7 \pm 2.0	(15.9; 19.5)	0BC	63.4 \pm 1.9	(61.7; 65.1)	0C