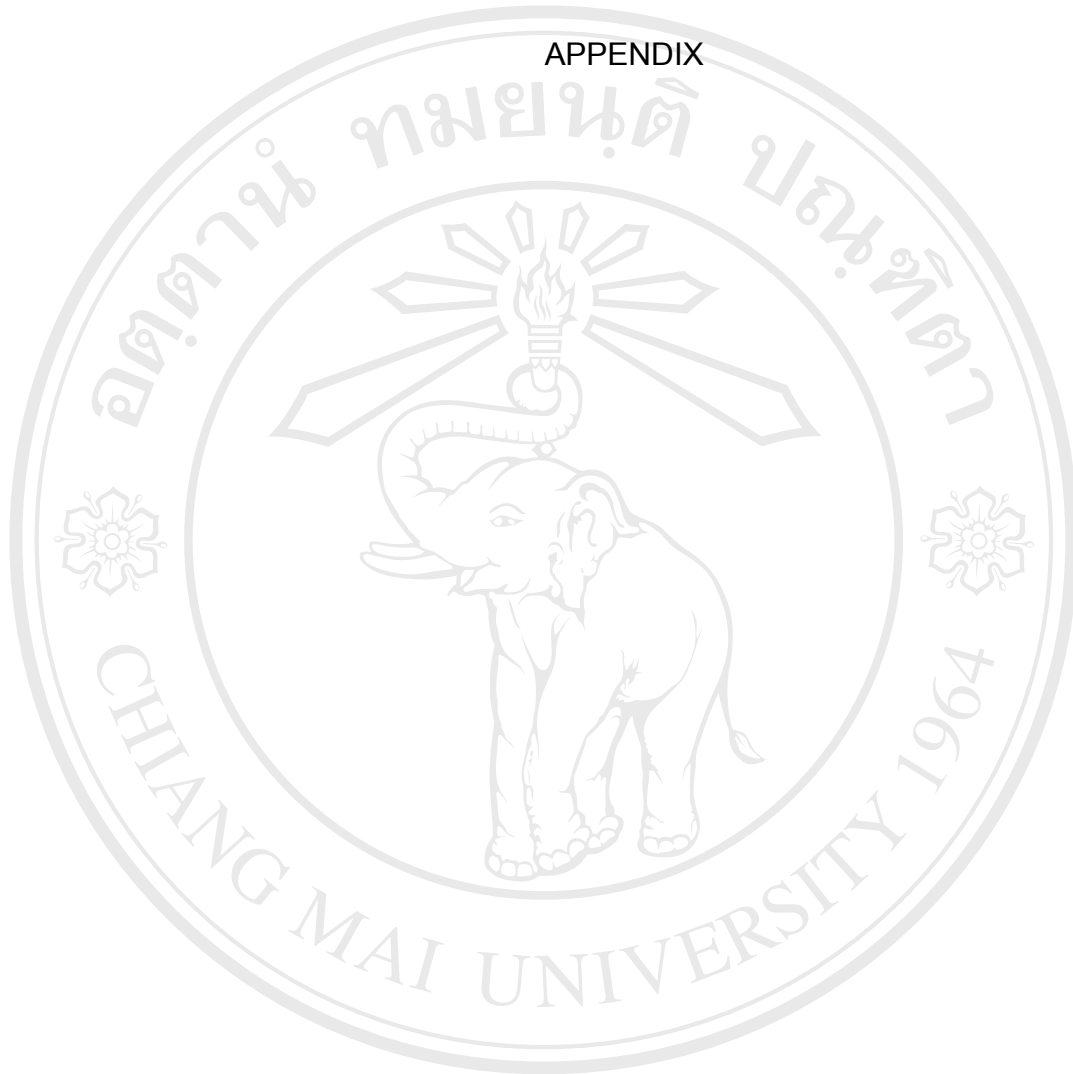


APPENDIX



ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่
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Table A The values of shear bond strengths of three self-etching (Xeno[®] III, ED PRIMER[®] and AdheSE[®]) and conventional phosphoric acid etching adhesive systems

No	Shear bond strengths (MPA)			
	Phosphoric acid	Xeno [®] III	ED PRIMER [®]	AdheSE [®]
01	6.94	0.38	6.80	1.89
02	11.28	0.09	3.01	0.05
03	8.21	2.80	2.56	0.09
04	4.87	0.28	5.72	0.01
05	5.16	2.10	1.56	5.60
06	6.34	1.13	5.59	0.53
07	12.63	2.49	2.89	0.09
08	3.79	0.02	4.63	2.45
09	9.67	1.84	9.83	0.42
10	7.61	0.66	1.88	2.26
11	11.18	0.01	0.61	5.43
12	13.48	0.04	0.47	1.61
13	8.63	1.62	0.13	0.24
14	11.02	0.06	3.08	0.81
15	12.54	0.40	5.47	2.29
16	11.99	1.28	7.59	0.71
17	8.06	2.74	3.51	2.95
18	15.00	0.93	4.62	2.90
19	9.47	2.64	2.19	1.53
20	14.60	3.68	8.03	0.02
21	7.84	5.37	0.05	0.76
22	8.13	3.44	0.65	3.68
23	6.86	4.26	1.06	0.84
24	6.90	1.42	3.04	4.44
25	15.31	1.66	6.39	5.03
26	6.89	0.69	4.06	1.76
27	10.72	0.96	6.29	2.96
28	7.72	1.38	5.85	0.02
29	8.00	2.42	4.84	0.52
30	11.22	0.01	3.26	0.58
31	10.27	0.32	5.99	1.66
32	10.12	0.35	2.85	1.44

Table B The failure sites of three self-etching (Xeno[®] III, ED PRIMER[®] and AdheSE[®]) and conventional phosphoric acid etching adhesive systems

No	Failure sites			
	Phosphoric acid	Xeno [®] III	ED PRIMER [®]	AdheSE [®]
01	3	2	4	3
02	4	2	4	2
03	2	2	3	3
04	2	2	2	2
05	2	2	3	2
06	3	2	2	2
07	3	2	3	2
08	2	2	4	3
09	2	2	2	3
10	2	2	2	2
11	2	2	2	2
12	4	2	3	2
13	3	2	2	2
14	2	2	2	2
15	3	2	2	3
16	3	2	2	3
17	3	2	2	2
18	4	2	3	2
19	4	4	3	2
20	4	2	2	2
21	2	2	2	4
22	2	2	3	2
23	2	2	2	2
24	2	2	2	2
25	2	2	3	2
26	3	2	3	2
27	2	2	2	2
28	2	2	2	2
29	4	2	2	2
30	3	2	2	2
31	2	4	3	2
32	2	2	3	2

1: within enamel, 2: adhesive/enamel interface, 3: within adhesive, 4: adhesive/bracket interface

5: within the bracket

Table C The percentages of the amount of residual adhesives on de-bonded enamel surfaces of three self-etching (Xeno[®] III, ED PRIMER[®] and AdheSE[®]) and conventional phosphoric acid etching adhesive systems

No	% residual adhesives on debonded enamel surfaces			
	Phosphoric acid	Xeno [®] III	ED PRIMER [®]	AdheSE [®]
01	66.0	10.0	77.4	30.2
02	87.1	10.1	90.6	8.0
03	21.5	0.5	44.0	59.6
04	11.2	13.7	18.7	9.7
05	25.1	6.6	66.8	21.9
06	38.9	0	20.5	8.2
07	45.4	1.5	33.2	3.7
08	10.2	25.0	87.0	27.7
09	19.1	14.0	0.5	33.2
10	22.3	6.3	25.0	1.6
11	18.0	9.1	12.1	0
12	78.8	0	31.3	0.5
13	51.7	8.5	17.5	1.9
14	16.2	0.9	12.9	15.9
15	42.4	4.0	16.4	53.3
16	37.6	9.2	6.7	43.8
17	48.8	13.7	16.3	1.5
18	75.6	9.6	30.2	7.4
19	91.9	78.9	35.7	14.7
20	87.9	2.0	1.4	3.8
21	10.3	18.9	13.8	80.8
22	1.7	0.9	38.9	10.0
23	5.5	0.5	17.7	4.3
24	20.4	15.0	6.3	18.5
25	14.6	9.4	32.0	3.8
26	55.5	6.3	57.4	9.0
27	24.2	2.0	19.9	6.8
28	3.9	6.4	10.8	18.2
29	95.2	8.3	21.9	24.1
30	53.6	19.6	2.1	14.8
31	19.3	93.0	66.1	5.1
32	6.0	1.0	52.6	7.0

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