

총의치 수리시 유지형태에 따른 접착강도에 관한 연구

신구전문대학 치과기공과

A Study on the Bond Strength According to Retention forms when Complete Denture Repaired

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Abstract

The purpose of this study was to evaluate the effect of three different retention forms on the bond strength when complete denture repaired.

Total 75 samples were divided into 3 groups(Dove-tail form, bevel form, rabbit form).

The completed resin samples were compressed in Instron Testing Machine until gross fracture occurred to examine the effect on the bond strength of resin base.

The results of the experiment were as follows :

1. The difference of bond strength according to three retention forms were not statistically significant($P>0.05$).
2. Dove-tail form was strongest to bond strength among the three retention forms

Ⅰ. 緒 論

가 1982 Bruskin Research Association 5¹⁾ manganese, platinum stainless steel non-metallic plastic (thermo hardening) 가 (thermo plastic) celluloid, nitrate, vinyl resin, nylon, polycarbonate, acrylic resin acrylic resin . metallic , metallic Aluminum 가 가 가 gold alloys, cobalt-chromium, Aluminum 가 가 가

2) metallic

1937 100 vulcanite phenol formaldehyde resin

acrylic resin(poly methl merthacrylate)
3) 1946

acrylic resin 98%
5) acrylic resin

6) 가

acrylic resin
가

James M.S.Clanoy & D.L.Dixon⁷⁾, R.McMordie & G.E.King⁸⁾, Wlodzinierz Jozefowioz & Alina Mikolajozyk⁹⁾

가

가

가

II. 實驗材料 및 方法

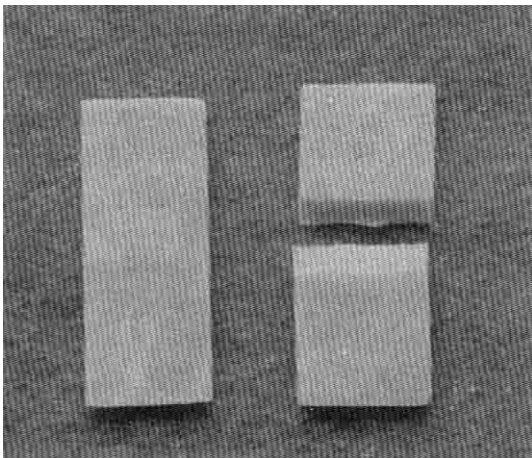
1. 實驗材料

heat curing resin(Perma-Cryl 2, COE, U.S.A), repair resin(Jet, Lang, U.S.A.), resin separator(Acro-Sep, G-C, Japen), plaster(Dental Caster, Yoshino Gypsum Sales, Japen), base plate wax

2. 實驗方法

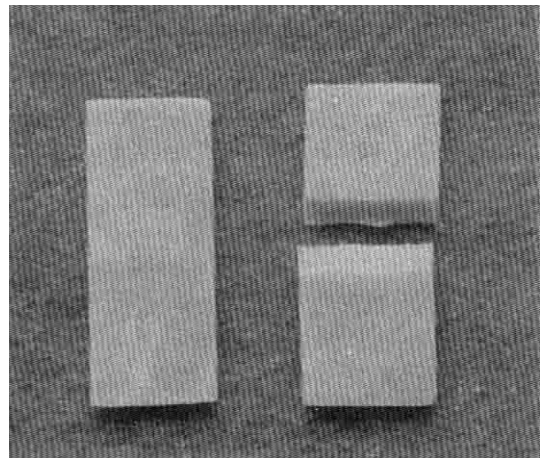
1)

1.5mm¹⁰⁾ 46mm, 20mm
base plate wax
flask plaster
flasking
wax bath wax
resin mixing, flask
douge stage gauge가
press(SAM KI, Japen)
resin curing unit(S
& K, Korea) short processing
mothod 165 가
212 30
curing resin 75



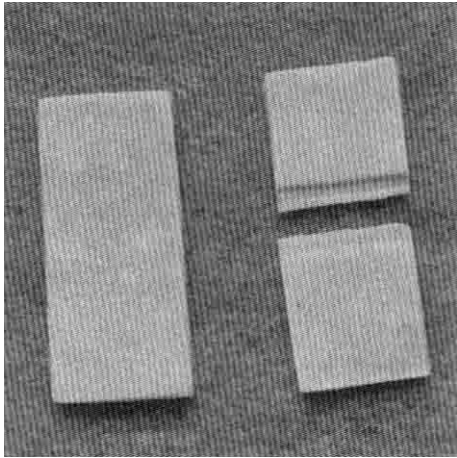
1. Bevel form

(A)

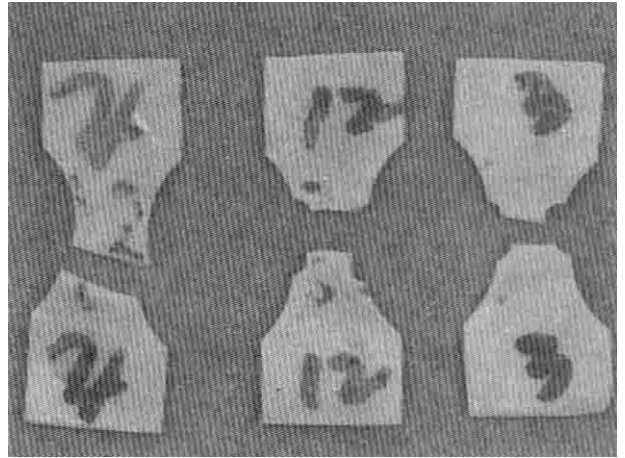


2. Dove-tail form

(B)



3. Rabbit form (C)



4.

25 3
 A bevel groove, B
 dovetail cut C rabbit
 11) flask repair resin(Splinkle method)
 air pressurepot

< 2 >
 가 가 Duncan
 가 가 가

Curing

2)

1.

Universal Testing
 Machine MD 1137(Instron Co, U.S.A :
) tensile strength

(kg/mm²)

	A	B	C
측정값의 합	62.97	69.05	62.97
측정값의 자승합	3806.89	4761.00	3956.41
산술 평균	3.42	3.83	3.49
표본 크기	18	18	18

18

oneway

A : Bevel form
 B : Dove-tail form
 C : Rabbit form

Duncan

III. 實驗結果

2.

1
 (oneway)

	자유도	평 방 합	불편분산	F
표 본 간	2	0.5110	0.2555	0.3676
표 본 내	26	18.0683	0.6949	
합 계	28	18.5793		

2

IV. 考 察

repair rebasing, relining resin metal
 base 가 indirect resin direct
 resin Jozefowicz⁹⁾
 McMordie⁸⁾ repair 가
 가 가
 가 11)가
 가
 dove-tail form bevel form⁸⁾
 repair area direct
 resin indirect resin
 repair area가
 R.McMordie & G.E.King⁸⁾ repair resin 가
 retention form reinfortal
 wire resin base repair
 direct resin
 indirect resin 가

V. 結 論

가 resin 75
 가

, dove-tail form, bevel form, rabbit form

1) 가
 가
 2) dove-tail form

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