

THE EFFECT OF BONDING AGENT AND DIFFERENT PRETREATED TECHNIQUES ON PORCELAIN-METAL BOND STRENGTH

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Bond strength varies with different pretreated techniques.

Four pretreated methods were used in this study.

Group I : Conventional degassing.

Group II : Double degassing.

Group III : Acid etching.

Group IV : High Firing.

The data obtained from this study showed that the bond strength of the conventional degassing was significantly higher than the bond strength of the other groups. Minimum strength values were obtained from the specimens of double degassing and acid etching techniques, while the high firing technique showed significant decrease in bond strength than the other techniques.

The assembly design which was used in this study for measuring the bond strength eliminated the error from the bond between the dental stone and metal rod (Shell method).