

RESIN BONDED FPD



Rochette bridge

Rochette 1973

wing like retainers with funnel shaped perforations

Base towards the tooth surface

silane-coupling agents for additional retention.

Etched retainers coated with pyrolyzed silane showed upto 47% superior retention.

Adv: Perforation (retention)
Disadv: cast exposure leads to marginal leakage

Maryland bridge

Livaditis and thompson

mechanical retention by the micro-porosities present on the tissue surface of the retainer.

Microporosities by etching the tissue surface of the retainer

Etching techniques
- Electrochemical
- Non - electrochemical

Adv : Microporosities (retention)
Disadv : Technique sensitive

Cast mesh fixed partial dentures

Non etching method

Produces roughness before the alloy is cast

Nylon mesh over lingual surfaces

Mesh incorporated in resin wax pattern

Mesh like surface when retainer is cast

Adv: etching not required
Disadv : Nylon mesh adaptation difficult, Wax flows between the mesh

Virginia bridge

Moon and Hudgins

Mechanical retention

Lost wax technique

Air abrasion with aluminium

More retention achieved compared with etching

Adv: Usage of noble metals
- Surface treatment not required
Disadv: Time consuming