

Sequences of operation

Fixed dentures:

Full crown

Made of metal alloy (gold or chromcobalt)

1. Phase in dental office

Preparation –

Reduction 1 mm around, occlusaly 1, 5 mm

Preparation border. slight chamfer

Taking impression

Elastomeric impression materials

Polysulfid, silicon, elastomers.:

Retraction cord around the tooth

Dual viscosity technique or single viscosity technique.

Dual viscosity technique – double impression

Simultaneous dual viscosity technique

Antagonal impression

Alginate

Occlusal registration (wax, elastomeric materials)

1. Phase in dental lab.

Making the cast (model) of gypsum.

There are three types of base raw materials derived from partial dehydration of gypsum rock depending on on the nature:

Plasters – fluffy, porous, least dense.

Hydrocal – hihger density, more crystalline

Densite – densest of the raw material.

Plasters----- Model plaster, lab plaster

Hydrocal----dental stone

Densite -----High strength dental stone

High strength dental stone is used for fixed dentures.

Wax pattern

Lost wax method. – investment and casting, finishing.

2. Phase in dental office

Try and cementation.

Sequences of operation

Fixed dentures:

Metal ceramic crown

Made of metal alloy (usu chromcobalt) and ceramics which covers the metal framework

1. Phase in dental office

Preparation –

Reduction 1 mm around, occlusally 1, 5 mm
Preparation border. slight chamfer

Taking impression

Elastomeric impression materials

Polysulfid, silicon, elastomers.:

Retraction cord around the tooth

Dual viscosity technique or single viscosity technique.

Dual viscosity technique – double impression

Simultaneous dual viscosity technique

Antagonal impression

Alginate

Occlusal registration (wax, elastomeric materials)

2. Phase in dental lab.

Making the cast (model) of gypsum.

There are three types of base raw materials derived from partial dehydration of gypsum rock depending on the nature:

Plasters – fluffy, porous, least dense.

Hydrocal – higher density, more crystalline

Densite – densest of the raw material.

Plasters----- Model plaster, lab plaster

Hydrocal----dental stone

Densite -----High strength dental stone

High strength dental stone is used for fixed dentures.

Wax pattern

Lost wax method. – investment and casting, finishing of the framework

3. Phase in dental office

Try and colour choice

4. making of ceramic

special procedure – firing in special oven in several phases.