

Kulzer Signum (Light Cured) Tooth Coloured Clasp Suggested Process

This technique was developed using the Kulzer Signum components and is well proven solution to achieving a aesthetic coloured clasp for patient's.

The process does require some trial and error while learning how to handle the materials. Best to practice on test case.

The final result is very resilient and can cope with minor clasp movement for general use.

The clasp must be finalised and adjusted correctly for the patient before applying this process. If you try to make major adjustments to the clasp after the composite is cured, it will normally crack. If major adjustment is required, you will need to remove and complete process again.

Wax up and process denture as required either by pouring or conventional flask and pack method.

Finish denture up to polishing stage and pumiced. Correct fit and adjust clasp to final position.

Ensure the denture and working area is very clean.

Apply components with a fine ceramist brush or applicator tips.

The aim is to achieve very thin layering, so the final product is presentable and not overly thick and to heavy. Practice makes perfect.

If clasp runs over gum, you can apply tooth colour over tooth area and pink shades over gum area.

Product Layering Directions:

1. **Sandblast denture** in clasp area with clean non recycled **110-250** aluminium oxide.
2. **Remove any oxide residue** with oil free compressed air or steam clean.
3. **Signum Metal Bond 1** – Apply to sandblasted area and air dry
4. **Signum Metal Bond 2 (Light Cured)** – Apply over Signum Bond 1. Light cure for 90 seconds in the Hilite Power unit.
5. **Signum Opaque F (Light Cured Opacuer Layer)** – Apply thin layer of Opaque Tooth Shade (A1 – D4) to tooth area of clasp (Optional: Use OP Opaque Pink to further mask Gum pink areas). Light cure 90 seconds in the Hilite Power unit.

Opaque F is an undercoat to blockout metal frames. It is used like an opaque in a ceramic system when it is covered by porcelain. Opaque ideally needs to be covered and it is not meant to be a finish. It is either covered with acrylic (Metal Partial Framework) or composite.

To achieve a thinner result and allow some of the greyness from the clasp show through, so the clasp is not to bright and stark you can skip the opaque F and just apply the composite.

6. **Composite Final Layer Tooth Areas:**
 - a) Using a flowable composite like Signum **Composite Flow** Dentine or **Venus Flow** Composite (**Light Cured**) – Apply thin layer of desired tooth shade of composite to clasp area. Light cure 90 seconds in the Hilite Power unit.
7. Finish with **Final Polish**

Additional Options (Purchase Components Separately):

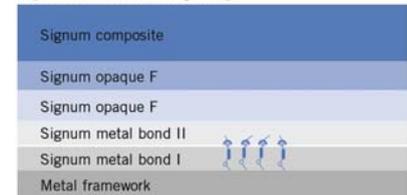
1. **Gum Areas - Pink:**
 - a) You can use a product like **Pala Cre-active Gingiva Composite** over the Opaque F OP Pink opaquer if not covered with acrylic – Apply thin layer of desired Pink shade eg. Shade R50. Light cure 90 seconds in the Hilite Power unit.
 - b) **HPC-RG Kulzer PALA Cre-active Refills – GINGIVA - 1 x 3g - Available In: Gingiva Pink 66033463, Gingiva Shade 200 66033464, Gingiva R50 66033465, Gingiva Light Pink 66033466, Gingiva Clear 66033467)**
2. **Making Clasp Brighter / Glossy** (Not widely used. Most users leave clasp finish a little more natural)
 - a) To make it all bright and shiny finish can use *Signum Cre-active 3g T2 (66020060)*
***T2 Transparent*



KULZER
MITSUI CHEMICALS GROUP



Signum metal bond layering



**Components
Available From:**

**durodent
dental**