

What is Qdent® SEMIFLEX Acrylic?

Qdent® SEMIFLEX Acrylic is a totally new and revolutionary material for removable dental prosthesis. Its most outstanding feature is its flexibility, which depends on its thickness. As thickness grows, flexibility falls and the material becomes practically rigid. For this reason, it can bring together in the same item a rigid base (little flexibility)

together with semi-flexible retainers. This is a type of product that could not be created until now with conventional acrylic materials.

Advantages

The main advantage – as already mentioned –, is its characteristic flexibility, which can be adjusted according to thickness. Nevertheless, there are also other advantages that are worth mentioning:

- 1 IT DOES NOT REQUIRE ANY SPECIFIC EQUIPMENT.
- 2 PERFECT ADHERENCE.
- 3 IT ALLOWS MAKING ABUTMENT RESTORATIONS AND REPLACEMENTS.
- 4 IT ALLOWS CONVENTIONAL POLISH AND FINISH.

How To work

Qdent® SEMIFLEX ACRYLIC has the most flexibility within 2 mm of thickness. The flexibility gradually drops as the thickness of each prosthesis increases. Any prosthesis over 3 mm will become rigid. Polymerization takes place at 45 °C under 1.5 bar for 45 minutes. After the polymerization process is completed, the prosthesis

adjusts perfectly onto the model with a minimum contraction of less than 0.05% in every case.

Qdent® SEMIFLEX Acrylic has been formulated to show flexibility under flexing efforts. However, it shows no flexibility under twisting efforts.

 You may also watch our videos on our website www.mestra.es and in our Youtube channel. There you can find a demonstrative video where the whole process to create a permanent prosthesis with Qdent® SEMIFLEX Acrylic.

What materials are available for the range?

REFERENCES FOR ABUTMENT (pink)



POWDER gr
 100 | 350 | 750 gr

LIQUID ml
 125 | 500 | 1.000 ml

REFERENCES FOR CLASP



POWDER gr
 100 gr

LIQUID ml
 125 ml














IMPORTANT

- Mixing proportion is 10 gr. Powder 8 gr. Liquid. Please beat energetically.
- Qdent-Acrylic must be polymerized at 45°C 1.5 bar for 45 minutes.
- The liquid for the abutment is different to the one used for

the clasp. They are not interchangeable.

- By mixing different base powder you can obtain different colours.
- The material for the clasp is only available in 100 g power containers and 125 g liquid containers.

Qdent SEMIFLEX ACRYLIC WORKING PROCESS

- 1  Conventional preparation of the master model.
- 2  Forming the wax pattern and retainers.
- 3  Making a complete silicone mould with two sprue holes to invest the acrylic material.
- 4  Remove from the mould and burn out, clearing the retaining areas in the master mould. Submerge into water for 5 minutes before applying removing varnish (the usual amount).
- 5  Extremely precise 10g powder / 8g liquid mixture. The monomer must be kept and applied cold.
- 6  The material for the aesthetic white or transparent retainer must be adequately mixed to a creamy but not runny state, so that it can be applied into the clasp imprint into the silicone.
- 7  Mixing
- 8  Applying the resin into the clasp imprint.
- 9  Placing the mould into the silicone sprue former.
- 10  Mix intensely for 5 seconds.
- 11  Sprue pour through one of the holes.
- 12  Polymerization at 45°C for 45 minutes under 1.5 bars.
- 13  Conventional polishing and finish.