



## Enigma High-Base Impact Resistant Denture Base Material

### Instructions for Use

#### INTRODUCTION

Enigma High-Base Impact Resistant denture base material from Schottlander is a heat cured acrylic based on methyl methacrylate and complies with EN ISO 20795-1:2013, Type 1 : Class 1.

#### DANGER

This product contains methyl methacrylate and the liquid is **highly flammable** and classed as **irritant**. Read health and safety section of these instructions and request a copy of the Safety Data Sheet before use.



#### INDICATIONS

A fast curing impact resistant acrylic for aesthetic, full and partial dentures including those for long term retention and use.

#### CONTRA INDICATIONS

People with known allergies to methacrylates should only use with suitable protection. Certain patients are unable to tolerate the wearing of appliances made from methacrylates.

#### PHYSICAL DATA

Powder: liquid ratio	21g:10ml (2.1g per ml)
Dough time at 23°C	10 to 20 minutes
Working time at 23 ± 2°C	10 ± 2 minutes

#### WAXING AND INVESTING

Wax up as normal and invest in gypsum. Follow procedure for gypsum models.

#### WAX REMOVAL

Immerse the flask in boiling water for five minutes. Remove and open the flask, lift out wax and flush thoroughly with boiling water to which detergent solution has been added, followed by clean boiling water. Allow to cool.

#### APPLY SCHOTTLANDER ISOLATING SOLUTION

After the flask has cooled down use a clean brush to apply one coat of Schottlander Isolating Solution to all plaster surfaces. Absorb excess from around teeth while it remains fluid. Make sure there is none on the exposed surfaces of the teeth. Allow to dry before packing.

#### MIXING

**Caution:** Liquid flash point 11.0°C - do not mix or store near naked flame.



Recommended ambient temperature for mixing and packing is 23°C.

Pour Enigma High-Base liquid into a mixing vessel and whilst rotating the vessel add appropriate Enigma High-Base powder in a slow stream until an excess appears on the surface. Mix Powder/Liquid Ratio 2 level scoops powder to 10ml liquid (21g:10ml). Hold the vessel in the hand, tap 3 or 4 times to bring any excess liquid to the surface and add sufficient powder to absorb this liquid. Invert the vessel and discard any surplus powder. Thoroughly spatulate the mix for 1 minute. Cover the vessel and wait for the mix to reach the correct stage for packing and pressing. This stage is reached when the material "snaps" and the mix can be separated cleanly from the walls of the mixing vessel with a spatula.

#### PACKING

**Care:** Do not pack before the dough stage has been reached. The flask temperature should be 23°C. Pack the material into the mould and cover with a thin polythene sheet. Assemble the flask and close slowly under a press. Open the flask, paint the model half of the flask with Schottlander Isolating Solution, remove separating sheet and cut away the flash. Then reassemble the flask, close under press and transfer to a security flask clamp. As an extra safeguard against porosity place a small additional amount of dough centrally in the flask. Do not pack after the end of the working time.

#### EXTENDED WORKING TIME

If storing Enigma High-Base for extended use, ensure that dough stage is reached prior to refrigeration.

#### RECOMMENDED CURES

##### Normal dentures

Immerse the clamped flask in warm water. Bring to the boil and simmer for 45 minutes. Residual monomer content <1.6%.

##### Thick dentures

Boil sufficient water to cover clamped flask, remove heat and place the flask into the water. Add 200ml

for every 2 litres of water used and leave for 60 minutes.

Apply low heat to maintain temperature of water at about 70°C for 30 minutes bring to the boil in not less than 10 minutes and boil for a further 20 minutes. Residual monomer content <1.6%.

#### ALTERNATIVE CURES

Other longer cure techniques can, if desired, be employed with Enigma High-Base material. When dry curing follow the instructions of the bath manufacturer.

**Note:** After all curing cycles bench cool the flask for 30 minutes prior to immersing in cold water before deflasking. Finish and polish in the usual manner. Store finished denture wrapped in damp tissue in a polythene bag.

#### INSTRUCTIONS FOR ADDITION AND REPAIRS

Additions and repairs may be carried out using Enigma High-Base. If using an auto polymerising repair material follow instructions of the manufacturer concerned.

#### STORAGE

Store at room temperature (max 30°C) and avoid prolonged exposure to sunlight. Keep containers tightly closed when not in use.



#### HEALTH & SAFETY

**Warnings:** Liquid contains methyl methacrylate monomer. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H225 Highly flammable liquid or vapour. H335 May cause respiratory irritation.

**Precautions:** P403 Store in a well ventilated place. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P501 Dispose of contents/container in accordance with local regulation.

For further information download a Safety Data Sheet from [www.schottlander.com](http://www.schottlander.com)



#### LOT NUMBERS

The lot number and the expiry date are shown on all containers.

This product is specifically formulated for use in dentistry.

**Caution:** Federal Law restricts this device to sale by or on the order of a licensed professional.

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