



SMILE – CAM in discs / parallelepipeds

Technology System Manufacturing
INSTRUCTIONS FOR USE

MANUFACTURER:

Pressing Dental S.r.l. - Via Edoardo Collamarini 5/d - 47891 Dogana (Repubblica di San Marino)

CONTENTS:

Resin for manufacturing parts of dental prostheses

BATCH:

Check on the package

STORING:

To be used by the date of expiry indicated on the container.

Store the product in its package, do not keep it exposed to direct sun rays, keep the pack away from heat sources and in a dry place.

USE INTENDED FOR:

Material for the drilling technique for details for dentistry.

Ex.: frames to reinforce provisional bridges

SPECIFIC INSTRUCTIONS FOR USE:

The product SMILE-CAM in discs can be used with all equipment using the removal-based drilling technique.

In order to know how to use the material properly, the user (dental mechanic) of this material must attend a theoretical/practical course at the premises of the company manufacturing drilling equipment.

During such training course, users are informed regarding all processing techniques currently known for a correct use, as well as the benefits and limits of thermoplastic products to be used with the drilling technique.

In case the SMILE-CAM has to be combined with metal parts, as there is no adhesion between materials, it is essential to create mechanical retentions.

In case the SMILE-CAM has to be combined with details made with acrylic resins, it is possible to obtain a suitable adhesion using conventional primers.

See processing times.

RECOMMENDED COLOUR SCALE:

SMILE – CAM

SUPERFICIAL COLOURING TECHNIQUE:

- Slightly sandblast (2 bars) with 50-micron aluminium dioxide.
- Remove sandblasting residues with steam.
- Use a compound primer based on ethyl acetate, to facilitate adhesion (ex. Lux Clea).
- Use a brush to spread a thin and even layer of photopolymerizing lacquer (ex: Acelux).
- Polymerize following the manufacturer's indications.
- Mix pigments until the desired shade is obtained, with the same lacquer.
- Spread the pigmented lacquer on the surface and photopolymerize it.
- Once the colouring phase has been completed, spread a further protective layer and photopolymerize, again following the manufacturers' indications.

NOTE: The colouring made with photopolymerizing lacquers can entail a bacterial plaque adhesion. In addition, the photopolymerizing lacquer can, in time, wear out, leaving a rough surface beneath itself.

Information on the drilling technique

(Note: these data are merely indications, in that they can vary according to the equipment used)

First passage:	Ø 2.5mm drill	25,000 rpm
Second passage – finishing:	Ø 1mm drill	30,000 rpm
Feed speed:	Medium	
Cooling:	Air or water	
Drill type:	Tungsten	

FINISHING AND POLISHING:

- Use non-aggressive polishing pastes (ex: Universal Polish).
- Only use low-revolution cotton brushes, to avoid overheating the material (ex: a brush for handle having a diameter of 20mm on a 20,000/40,000 rpm handle, polish at intervals of 5/10 seconds by pressing slightly; the same procedure must also be followed with brushes having a diameter of 80mm with 2800 rpm equipment).
- The product must be cleaned only with running water and, if necessary, using non-abrasive materials. Do not use ultrasound equipment with acids that could change the material's characteristics.
- The material can undergo colour changes in the following cases:
- If the material is overheated during the drilling phase;

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- If it remains in contact with carotene for long periods of time;
- If no proper polishing is carried out;
- If it is pigmented with light-sensitive spray, which, in addition to favouring bacterial plaque adhesion, can also tend to wear out, leaving a rough surface beneath.

WARNINGS:

The product does not resist to chemical agents with oxidizing effect, nor does it tolerate strong acids (pH <4).

During the finishing phase, use an air exhauster and/or a mask, so as not to breathe the dust.

During the finishing and polishing phases, pay attention not to overheat the product, in that since it is a thermoplastic material, an unwanted change in the prosthesis could occur, with the subsequent release of irritant gases.

In case small appliances are manufactured, pay attention not to leave sharp parts (in case of clasps); in case the finished appliance is not fixed, its size must not favour the swallowing of the device.

Warning: the material is not visible with X-rays.

Do not reuse the product.

Never exceed the maximum temperature of 150°C.

If, during the drilling phase, a strong smell is noticed, it means that the drilling is taking place at a temperature close to the softening / melting temperature of the material.

If this is the case, immediately cool the part concerned.

If the material is processed at a temperature which is too high, mechanical changes of the material may occur, with probable repercussions on the final prosthetic item.

Do not contaminate the product during the drilling phase.

Do not mix the product with other materials.

In case episodes of allergenicity to the material occur, immediately discontinue the application and contact a physician.

RISK PHRASES INDICATED ON THE PACKAGE

Store in a cool and well-aerated place, away from heat sources or sunlight, at a temperature lower than 30°C

R 40/20 Noxious: possible irreversible effects due to inhalation (to be intended in case of product decomposition, because of the gases that form during such process);

R42/43 It may cause sensitization by inhalation or contact with the skin (due to the dust produced during the finishing phase of items)

R34 It causes burns (in relation to the material in the melted state);

R 36/37- Irritant for the eyes and the airways (due to the dust produced during the finishing phase of items and the gases in the melted state).

R11 Easily flammable

R36/37/38: Irritant for the eyes, the skin and the airways

(in relation to the dust during the finishing of items and gases in the melted state).

R43: It can cause allergic sensitization in contact with the skin (in relation to dust during the finishing of items)

S9: Store in a well-aerated place

S16: Keep away from any ignition sources – Do not smoke

S26: In case of contact with the eyes, wash them immediately with water and contact a physician

S 29: Do not discharge the product into the sewage system

INFORMATION FOR THE FINAL USER

Upon delivering the finished device, the dental mechanic must give the final user at least the following indications:

- Do not clean the prosthesis with abrasive products or products for the cleaning of prostheses made of acrylic resin or metal prostheses; only use products for the oral hygiene.
- Wash the prosthesis only with cold water, in any case the water temperature must never exceed 42°C .
- A colour change was detected in case of prolonged contact with carotene.
- Normal oral hygiene.
- The device is not radio-opaque.
- Wear and tear of the material due to bruxism and contact with abnormal antagonists.
- Flammable device (synthetic resin)
- In case episodes of allergenicity to the material occur, immediately discontinue the application and contact a physician.