

#### Basic description:

The Dentapreg® SFM medical product is a strengthening material used in the field of restorative dentistry. It is a formable strip formed by braided glass fibers with a surface treatment, which are impregnated with a light-curable polymer matrix.

#### Intended uses:

The Dentapreg® SFM medical product is intended for stabilizing anterior teeth in the event of looseness or the need to fix the teeth in a specified position. The medical product is used to make stabilizing splints in periodontology and traumatology, and to create spacers and post-orthodontic retentions in orthodontics.

#### Contraindication:

In rare cases, the use of Dentapreg® medical products may be associated with an allergic reaction. The use of Dentapreg® medical products is contraindicated in patients with known sensitivity to any of the components contained in Dentapreg® medical products (especially methacrylate monomers and polymers).

#### Safety measures:

- During application, it is recommended to use powder-free latex or nitrile protective gloves, and to use non-contact techniques.
- Avoid looking directly into the light of the curing lamp, use safety goggles when curing. Also protect the eyes of the patient.
- Avoid contact with eyes, ingestion, and contact with skin and soft tissues.
- In the event of the contact of an uncured strip with soft tissues or skin, gently wipe the affected area with a cotton swab or gauze, and rinse with water. In the event of hypersensitivity (allergic reactions), seek medical advice and refrain from using the product on the given patient in the future.
- Inform the patient about the need to observe hygienic principles.
- Instruct the patient to see a dentist without delay in the event of a functional failure.
- In the event of any serious adverse effects, contact the manufacturer and the relevant regulatory authorities immediately.

#### Manufactured by

ADM, a.s., U Vodárny 2, 616 00 Brno, Czech Republic  
[www.dentapreg.com](http://www.dentapreg.com)

 The pictogram on the packaging defines the width and structure of the strip



#### Important notice:

- Do not use the product after the expiration date.
- The product is not intended for multiple use.
- Do not use the product if it becomes contaminated or otherwise damaged while being relocated to the designated place of use.
- Do not use in combination with materials containing eugenol, phenolic substances may affect the curing of the resin matrix.
- Do not use the product if the protective cover is damaged in any way.
- Avoid using direct intense light in the working area, as this could lead to premature curing and loss of application properties.
- Label the product and invalidate by curing before disposal.
- Ensure the collection of medical waste by a certified company.
- The target group of patients is not limited and corresponds to the prevalence of disability.

#### Compatibility information

- Adhesive system: use a standard light-curable adhesive system for the adhesive preparation of hard dental tissue surfaces. Follow the manufacturer's instructions for the composite material used.
- Composite material: use a standard light-curable methacrylate-based composite material (universal bulk fill composites, enamel replacement composites, or flowable composites) to position and cover the fiber reinforcement.

#### Storage:

Dentapreg® products should be stored at temperatures between 4 and 25 °C in undamaged packaging away from direct light sources. Do not expose to temperatures higher than 25 °C for extended periods of time. Do not use after the expiry date stated on the packaging. After opening the blister, unused parts of the strip can be stored in the light protection box included in the packaging. In this packaging, keep the product in the refrigerator at temperatures between 4 and 10 °C, and use it within four weeks.

#### Additional information:

The product is intended exclusively for use by a dentist (a dental technician may be involved in the preparation of indirectly made replacements). Always use in accordance with the instructions for use and the defined intended uses. ADM, a.s. does not accept liability for damages caused by non-compliance with the prescribed application procedure or use outside the specified indication range. Always familiarize yourself with material safety data sheets available at [www.dentapreg.com](http://www.dentapreg.com). They can also be obtained from your supplier.

- 1) Measure the required length of the splint by using dental wax, wedjets, dental floss etc.



- 2) Clean the surface of the teeth, using non-fluoridated prophylaxis paste.



- 3) Ensure a dry working area using cotton rolls or preferably a rubber dam.



- 4) Isolate interproximal spaces (wedjets, wooden or plastic wedges).



- 5) Slightly prepare the tooth surface with a diamond bur. For short term splints (i.e. trauma splints) the preparation of the surface with a diamond bur is not necessary.



- 6) Apply orthophosphoric etching gel on the tooth surfaces and interproximal spaces in the splinted area according to the manufacturer's instructions.



- 7) Rinse thoroughly and dry.



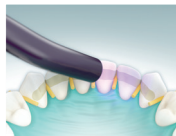
8) Apply a thin layer of an adhesive system to the etched surface of the teeth.



15) Light cure the composite according to the manufacturer's instructions.



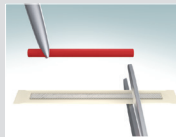
9) Light cure the adhesive according to the manufacturer's instructions.



16) Remove any excess composite.



10) Remove the Dentapreg® SFM strip from the blister and cut it with scissors to the required length. Do not touch the unprotected strip with bare hands. The use of powder-free latex or nitrile gloves is recommended. Store the remaining strip in the supplied light protection box and keep it in a dark place, preferably in a refrigerator. In this manner, you can store the strip for up to 4 weeks without its properties deteriorating significantly.



17) Finish the splint surface by polishing.



11) Cover the bonding area with a thin layer (approx. 0.5 mm) of C&B composite. DO NOT LIGHT CURE YET!

For short term splints (ex. trauma splints) you can use flowable composite.



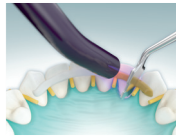
18) Finished splint.



12) Remove the protective paper and plastic foil from the strip. Insert it into the uncured composite and adapt it to the teeth surface. You can use Dentapreg® Fork for easier adaptation.



13) Light cure the adapted Dentapreg® strip for 40 seconds per tooth. You can use Dentapreg® Shield for protecting the rest of the strip during the light curing.



14) Cover the entire surface of the splint with a layer of either flowable or C&B composite. If the splinted teeth don't have contact points, build them from C&B composite.



### **Remark to intracoronal splint**

The above mentioned procedure describes the preparation of surface retained splint. For better stabilization of periodontically compromised teeth you can make an intracoronal splint. The procedure is the same as for the surface retained splint except for the preparation of a groove on the teeth to be splinted. The width of the groove must be sufficient for placing the Dentapreg® strip. Keep in mind that the width of the Dentapreg® SFM strip is 2 mm.

### **Important**

- Dentapreg® strips must always be completely covered with composite material. If the contact points are missing from the splinted teeth, build them up with composite material.
- Point fixation of the reinforcement with the composite material is not sufficient. Attach the Dentapreg® strip along the entire length of the tooth.
- The splint should not interfere with the contacts on the incision edges.
- Use metal instruments such as tweezers or spatulas for adapting the Dentapreg® strips. Sterilize instruments before use.
- Do not use if it is not possible to ensure a dry working field.
- Take care not to damage the reinforcing fibers during the finishing phase.