• **Unique matrix system**
  for the simplified application of dental fibers

• **Effective compression**
  and adaptation of fibers to tooth surfaces

• **Easier and faster**
  than manual application of fibers or metal wires

• **Reliable and long-lasting bonds**
  create durable splints, retainers and space maintainers
Dental fibers have been in use a long time for various splinting and reinforcement applications and in the last few years have progressed significantly in their quality and ease of use. Current generation materials are in fact a lot more alike than they are different. The better materials, like Fast Splint Matrix fibers, are made from a glass fiber and are pre-impregnated in a light cure resin. The pre-impregnation makes the fibers easier to handle and stronger as well, as the resin/glass matrix is more homogeneous due to better resin penetration into the glass bundles. It also results in a chemical bond to the bonding and composite materials that are used in the complete process.

The use of glass fibers versus metallic options is attractive to dental professionals because they allow for an effective bond to tooth structures when applied correctly, resulting in strong and durable splinting. Fibers are also highly esthetic. Yet some dental fiber users have found the intra-oral fiber application procedures to be less than user-friendly, usually becoming “four-handed” and to some, time-consuming. All-manual methods of fiber application can also make it difficult to get the fibers intimately adapted to tooth surfaces, compromising ultimate bond strength.

The Fast Splint Matrix difference:

The real innovation with the Fast Splint Matrix system is the use of an index/matrix to simplify and speed up the placement of the fibers. The matrix also compresses the fibers evenly and intimately to the tooth surfaces, thereby improving overall bonding effectiveness and the durability of the splint, retainer, or space maintainer.

The Fast Splint Matrix system will accommodate different workflows as well, allowing users to fabricate splints, retainers and space maintainers either directly in-mouth or indirectly on a model – whatever works better for you! Indirect fabrication can be performed by in-house staff or by any dental lab, freeing up chair time and allowing you to maximize the profitable use of clinical time.

Compressible Fibers

The technique ensures that the tubular form of the fiber is compressed to a flat shape, also creating an increased bondable strip on each side of the fiber.

888-582-8115
in Canada: 1-800-667-9622
fiberforcedental.com/fsm
Advantages of Using Fast Splint Matrix Technique

- Less technique sensitive than all-manual placement methods
- Better compression of fibers and adaptation to tooth surfaces
- More precise positioning and ultimate fit of the splint, retainer or space maintainer
- More accessible to a wider range of dental auxiliaries and technicians
- Splints, retainers, and space maintainers can be made indirectly on a model

Applications:

1mm Fibers:
Braided rope compresses to the lowest profile and is ideal for orthodontic lingual retainers

1:4 Fibers:
Hybrid fibers are designed for applications where greater tooth stabilization and higher overall strength are required

Orthodontic Retainers:

Fast Splint Matrix 1mm resin pre-impregnated light cure fiber is ideal for orthodontic retainers. It has a low profile which results in a very unobtrusive retainer that is more than strong enough to maintain tooth position and resist tooth movement. A fiber retainer is preferred by patients seeking a more esthetic alternative to metal wires, and many dental professionals will find that making and placing a Fast Splint Matrix fiber lingual retainer is faster and easier than bending and placing metal wire. This is especially true with teams that don’t routinely place retainers or face regular change in personnel, as the Fast Splint Matrix system has a short learning curve and can be less technically sensitive than wire-based retainers. If a dental office is currently outsourcing the fabrication of the retainer to a lab, the Fast Splint Matrix system gives them an easily accessible solution for making them in-office. On the other hand any dental lab can easily fabricate lingual retainers for the dentist, who then simply bonds them in place using the matrix system.

Periodontic/Trauma Splinting:

Fast Splint Matrix 1:4 resin pre-impregnated light cure fiber is suited for perio and trauma splinting, where teeth are more mobile and a stronger fiber is required. When using the complete Fast Splint Matrix system, fabrication and placement of the splint is more accurate and faster than when placing metal wires or fibers manually. Regardless of method, when placed Fast Splint Matrix 1:4 fibers assure a stable and resistant splint that can remain in long-term service.

Implant/Space Maintainer:

Using the 1:4 fiber, the Fast Splint Matrix system permits the fast and simple fabrication of single-tooth space maintainers/flippers that are far more esthetic, comfortable for patients and less bulky than other solutions. Single tooth acrylic flippers and suck-down type stents can easily be removed by patients leading to poor compliance and possible tooth displacement that compromises the final prosthetic solution. The Fast Splint Matrix single tooth flippers are bonded into place, easily tolerated by patients and only come out when the dentist says it’s time!
Abbreviated Technique: Ortho Direct Method

1. Apply the custom gauge wax strip to establish the position of the final retainer.
2. Use the Matrix silicone to create an index or matrix of the tooth area where the retainer will be bonded.
3. Prepare tooth surfaces as per standard bonding procedures.
4. Load the 1mm fiber into the index/matrix.
5. Position the index/matrix and light cure.
6. Cover the retainer with a thin layer of flow composite, light cure, and finish.

Fast Splint Matrix Intro Kits & Refills Fibers

For Ortho Lingual Retainers:

**Intro kit 1mm:**
- 10 - 55mm (2.25") FSM Compressible Fibers (1mm Braid)
- 8 - 2.25" (55mm) FSM Wax Strips
- 1 - 50ml Cartridge of FSM Silicone Impression Material
- 10 - FSM Silicone Material Mixing Tips
- 10 - FSM Silicone Material Wide Application Tips
- 1 - 2g Syringe of Matrix Flow Composite with Tips
- 10 - FSM Positioning Tips
- 1 - 5ml Bottle Matrix Bond Resin

**Intro Lab kit 1mm:**
Same as the above less Matrix Bond Resin

**Bulk refill 1mm:**
- 40 - 55mm (2.25") FSM Compressible Fibers (1mm Braid)
- 40 - 2.25" (55mm) FSM Wax Strips

**Refill 1mm:**
- 5 - 55mm (2.25") FSM Compressible Fibers (1mm Braid)

For Perio/Trauma Splinting & Space Maintainers:

**Intro kit 1:4:**
- 10 - 55mm (2.25") FSM Compressible Fibers (Hybrid 1:4)
- 8 - 2.25" (55mm) FSM Wax Strips
- 1 - 50ml Cartridge of FSM Silicone Impression Material
- 10 - FSM Silicone Material Mixing Tips
- 10 - FSM Silicone Material Wide Application Tips
- 1 - 2g Syringe of Matrix Flow Composite with Tips
- 10 - FSM Positioning Tips
- 1 - 5ml Bottle Matrix Bond Resin

**Intro Lab kit 1:4:**
Same as the above less Matrix Bond Resin

**Bulk refill 1:4:**
- 40 - 55mm (2.25") FSM Compressible Fibers (Hybrid 1:4)
- 40 - 2.25" (55mm) FSM Wax Strips

**Refill 1:4:**
- 5 - 55mm (2.25") FSM Compressible Fibers (Hybrid 1:4)