

**CHORDS** is a light-cured polyaramid dental fibre, used in every indication where dental fibres can be applied, such as composite restorations, repair, and/or teeth stabilization.

## INDICATIONS:

- splint or stabilize teeth, in permanent and/or temporary, direct and/or indirect manner,
- periodontal diseases running with the loss of teeth stability,
- maintenance of the orthodontic treatment results, preceded by any kind of dental brackets or orthodontic appliances,
- wounds, breakages and other injuries of the head/mouth region resulting in increased teeth movement,
- maintenance of the interdental gaps in results of teeth extractions,
- bridge, crown, inlay, onlay making, in both lab or in situ manner,
- composite and acrylic restorations repair.

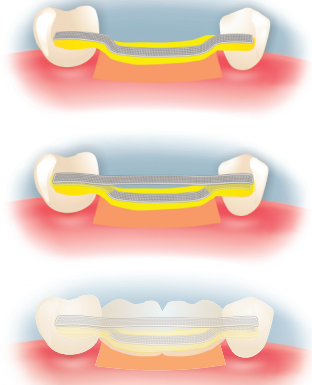
## INSTRUCTIONS FOR USE

1. Prepare teeth in accordance with standard practice.
2. If using an external indirect method, isolate the teeth with vaseline or silicone, take an impression and cast a model.
3. If using an internal indirect method, isolate the tooth surface with vaseline or silicone and protect the gingiva with rubber dam. It is important that you are able to remove the restoration and inspect it prior to final cementation. Check for blow holes and imperfections.
4. If it is absolutely necessary, a direct method can be used. Isolate the teeth and operating field from blood and saliva contamination using rubber dam, then etch the teeth and apply Bond or another bonding agent.

## BRIDGE RESTORATION

Measure the required length (do not remove the protective coverings) and cut the fibres:

1. Cut the main fibre to the length of your preparation from one side to the other.
2. Cut the second, auxiliary fibre to match and support the main fibre along its entire length. Only use a second fibre if there is at least 1.5 mm above it for an outer layer of composite.
3. Place the first composite layer (at least 0.5 mm thick and not more than 5 mm long) onto the teeth and spaces previously occupied by the missing teeth.
4. Remove the protective light-proof orange covering, only for the section that is to be polymerised.
5. Polymerise in sections not longer than 5 mm sequentially along the entire length of the prepared fibre so that the fibre and the applied composite are cured at the same time. Do not apply composite to the adjacent teeth until necessary, in order to prevent accidental polymerisation. Continue until the span is complete. Never attach the fibres to polymerised composite. Always polymerise the fibre together with the composite.
6. For further layers, repeat the process, applying a layer of composite under the fibre, and polymerise together in 5 mm sections.
7. Build up the bridge with Create composite and complete the tooth aesthetics and occlusion.
8. For a natural look and colour matching to the adjacent teeth, Colourflow, Silkflow, Colourant and Glaze can be used. Flowable composites can be mixed with Glaze.

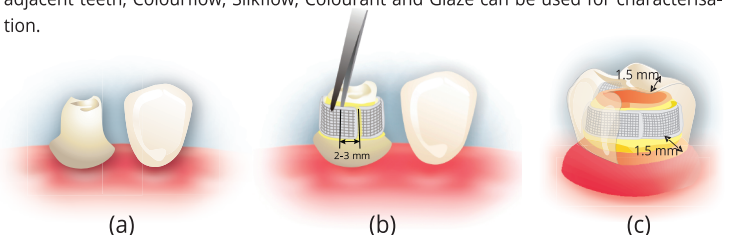


## CROWN RESTORATION

Cut prep with a stepped margin (a).

Measure the length of the fibre which is to be wrapped around the prepared tooth with an overlap of about 2-3 mm (b). Cut the fibre and press into the composite, polymerise both together in sections of no longer than 5 mm until the two ends of the fibre completely wrap the tooth.

Shape the crown with Create composite (c). For a natural look and colour matching the adjacent teeth, Colourflow, Silkflow, Colourant and Glaze can be used for characterisation.

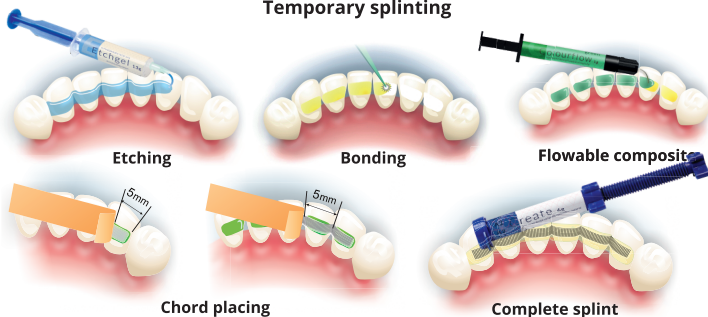


## SPLINTING

1. Clean, dry, etch and layer the tooth surfaces with a bonding system, such as Bond.
2. Measure and cut the appropriate length of the fibre.
3. Start splinting either from the centre, from the most mobile tooth, or from the largest interdental gap.
4. Apply a thin layer of Create or Silkflow composite to the first splinted tooth, from one interdental gap to another.
5. Carefully push the fibre into the composite. Cure in 5 mm sections.
6. Repeat these steps until all the teeth intended for splinting are connected by the fibre. Then cover the splint with composite, smooth and polish.

In the case of temporary splinting, to distinguish it from the colour of the tooth, the first layer of the composite fixing the moulded fibre should be Colourflow in a contrasting colour, for example, pink or orange. The complete thickness of the construction should not exceed 1.5 mm.

### Temporary splinting



### IMPORTANT!

1. Never touch Chords with your fingers! Always use instruments to handle Chords.
2. Chords fibres are sensitive to sunlight! Chords is ready for use straight from the packaging they do not need to be activated.



DO NOT TOUCH



USE TOOLS ONLY

### **MD** Medical device class IIa

#### COMPOSITION

Chords is composed of: dimethacrylate resins (Bis-GMA, TEGDMA), polyaramid fibres (40-60 % by weight) and additives (photoinitiators, inhibitors, catalysts, stabilisers, pigments). It undergoes free radical polymerisation when activated by visible light of wavelength between 400 nm and 500 nm (blue region).

#### PRECAUTIONS

Avoid contact of unpolymerised product with skin, eyes and the soft tissues of the mouth. In case of such contact, rinse with plenty of water. In case of any symptoms, consult a doctor giving information about the product. In case of allergy to methacrylates, stop using the product. In case of late onset of allergic reaction, remove the restoration. In case of aspiration into the respiratory tract, seek immediate medical attention.

#### STORAGE

Store at a temperature below 25°C, in original packaging. After opening, Chords fibres might be stored at a low temperature, but not lower than 3°C and not for longer than 6 months. Bring back to room temperature before use. To avoid accidental polymerisation, close the container immediately after use. Use the orange covering to protect the unpolymerised fibres from sunlight.

#### CONTRAINDICATIONS AND WARNINGS

Do not use in patients with a known allergy to methacrylates.

Keep out of reach of children.

Protect from heat and light.

Do not use after the expiry date.

For use by dentists and dental technicians only.

#### WARRANTY

ARKONA will replace products that have been proved to be defective or will refund the price of purchase. ARKONA is not liable for any loss or damage caused by misuse or improper use of the product.

Instruction for use issued on 24.02.2020