MIXPAC™
Discover the Diversity of our Dental Applications
You can rely on the quality of MIXPAC™ and that is a good feeling. Not only for you, but also your patients.
MIXPAC™ embraces our know-how, our innovative power and state-of-the-art technologies. We offer specific solutions for numerous single and multicomponent applications in the dental market. Today, MIXPAC™ systems are used worldwide in dental practices and dental laboratories.

Process-safe solution

The dental material can only meet all the specified requirements if all processes, such as primary packaging, dosing and mixing are inherently stable, controlled and reproducible. All individual components of the MIXPAC™ systems are matched for compatibility and have been firmly anchored as a safe value in the dental market for over 15 years. MIXPAC™ users are in possession of systems which enable precise clinical application at the right place, the right time, and the desired quantity.

MIXPAC™ – The Original

MIXPAC™ is the global market leader – for good reason. Because the products are distinguished by top quality and maximum reliability. Using MIXPAC™ original products ensures safety, clean results and a time-saving workflow. In the overall tested system, all processes and components are meticulously matched.

- Original MIXPAC™ distributor – for precise application, ergonomic handling and greater reliability.
- Original MIXPAC™ mixing cannulas – for homogeneous mixing results, lower volume loss and complex solutions.
- Original MIXPAC™ cartridges – for greater storage stability, greater diversity and multiple applications.

The original is easy to recognize. The MIXPAC™ logo on mixing cannulas, cartridges and distributors and the six MIXPAC™ colors turquoise, light blue, purple, yellow, pink and brown show you that you are working with premium quality.
MIXPAC™ products are at home in the dental practices of this world and stand for innovation, quality and the smile of satisfaction.
This overview is just an excerpt of the MIXPAC™ systems and their applications. We would welcome a personal meeting to tell you more about the additional options available to you.

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Prosthetics – Impression taking

Impression taking is the starting point of most dental laboratory work and acts as linking element to dental treatment on the patient. Here, MIXPAC™ products provide efficient processes and ultra-precise results.

THE APPLICATION – STEP BY STEP

Tray filling

Attach dynamic mixing tip

The dynamic mixing tip allows dispensing of highly viscous materials with latest generation devices. The mixing tip is fixated with a bayonet ring. The impression material is dispensed into a tray. The result is a homogeneous mixture.

Filling the tray

Clinical Application

Attach application nozzle to the mixing tip

Due to its optimal fit, the MIXPAC™ application nozzle is attached precisely and securely to the mixing tip during application. The matched system ensures tightness at the interfaces despite the infinitely adjustable attachment. The attachment force required is kept as low as possible.

Remove cap

Place mixing tip on cartridge

A notch on the cartridge makes incorrect attachment impossible and prevents cross-contamination. The ribbed surface allows easy rotation and fixation of the mixing tip. In addition, the MIXPAC™ T-Mixer reduces the volume lost and provides a homogeneous mixing result.
With the cartridge the rotating ring is closed, the cartridge is thus firmly secured. Application is intuitive, in addition, the ring can only be closed in one direction. The ergonomic design of the dispenser ensures a stable grip and precise application. The removable plunger makes cleaning extremely easy and simple.

The application nozzle allows easy and precise application of the material.

The Colibri mixing tip is particularly suited for narrow interdental spaces. Precise application is enabled by the small diameter and the cylindrical shape of the medical stainless steel needle.

Benefits at a glance
- Dynamic mixer for high-viscosity materials and automatic mixers
- T-mixer for homogeneous mixing results and minimal material loss
- S-dispenser II for intuitive and fatigue-free work
- Application nozzle with optimal pass safety for precise application
- Colibri for comfortable, safe and dead-on insert molding
- Flat die for rapid, full-surface application to the occlusal surface of the row of teeth
Comfortable impression taking

«I have been an enthusiastic user of the Colibri with the yellow dome by Mixpac Sulzer for impressions in my dental practice for some time now. The delicate mixing tip (diameter 1.4 mm) allows direct application of the impression material into the sulcus. This is most apparent in the case of crowded teeth, where the Colibri offers significant advantages over a plastic tip. Due to the bendable metal mixing tip it can be adapted to the individual situation in the mouth and allows confident control of the material. Since then I have experienced fewer problems with air entrapments or incomplete imaging of the preparation margin. Overall, taking impressions has become more comfortable in my dental practice.»

Dr. med. dent. Christoph Steiner, Mels, Switzerland
The Luer Lock connector with flexible and rotatable mixing tip – made for modern dentistry

«Steady progress in dentistry presents us with new challenges time and time again. Low viscosity composites, pastes and fluids are to be applied with pinpoint accuracy in minimally invasive cavities wherever possible. Not always directly visible, we work under the mirror and sometimes also where mouth opening is restricted.

Sulzer Mixpac has now developed Luer Lock syringe tips with bendable mixing tips that make our lives easier in such situations. These mixing tips can be individually adapted by simply bending at an angle without kinking. The mixing tips are available in three common sizes and are therefore suited to the different consistencies we work with. It is also the small details that simplify routine work - I would not want to be without these mixing tips any more.»

Dr. med. dent. Niklas Bartling, Altstätten, Switzerland
Conservative Dentistry – Filling

Low viscosity composites are growing in importance in modern dentistry. Here, the MIXPAC™ systems provide considerable facilitation in filling therapy (flow).

THE APPLICATION – STEP BY STEP

Attach application needle

After removal of the cap, three standardized Luer Lock connectors are available.

Rotate and bend needle

The rotatable flexible needle offers maximum flexibility during application. The material quality used prevents kinking of the needle during bending. The constant inner diameter ensures consistent flow of the material.

The rounded outlet of the needle effectively minimizes the risk of injury to the soft tissue.

Sits well in the hand

The ergonomic design supports safe and comfortable handling. The bendable needle can be rotated depending on the situation. This allows optimal handling during the application.

Filling

The bendable needle even allows access to difficult areas.

Benefits at a glance

- Ergonomic syringe and pestle for comfortable handling
- Luer lock closure as standardized interface
- Bendable, rotating needle for maximum flexibility
- Different needle diameters for different requirements
Adhesive dentistry has significantly increased the options in tooth conservation over the past years. A central aspect of bonding technology is ensuring an absolutely safe bond. The MIXPAC™ Dip ‘n Do simplifies this extremely important application.

THE APPLICATION – STEP BY STEP

The Dip ‘n Do is characterized by simple and fast handling. The one-off application offers the greatest possible hygiene.

Flexible applicator

The tip of the flocked applicator is flexible. The flocking absorbs the material well. The applicator allows even and well accessible application.

Simple depressing of the applicator leads to activation and wets the brush with material.

Benefits at a glance

- Pre-assembled applicator for easy single-hand activation
- Flocked tip for uniform application
- Flexible applicator for individual intraoral work
Testing the new T-Mixer™ from Sulzer Mixpac in the dental practice has convinced me!

«The shorter design reduces material waste in the mixing tip by more than 25% without any impairment to the usual handling. The individual mixing tips are shorter than the helix mixers which have proven themselves for years, but there are no negative effects in terms of practical use. On the contrary: the shorter T-Mixers are even more agile in certain situations and they require less room for storage. In the end, the same mixing result at less material loss says it all.»

Dr. med. dent. Julia Obermaier, Munich, Germany
The temporary restoration of the prepared teeth is a special focus when providing crowns and bridges. Reliable and high performance solutions at top quality levels are elementary here – the ergonomic cartridge in combination with the T-Mixer and the MIXPAC™ Butterfly provides the corresponding high-level support.

**THE APPLICATION - STEP BY STEP**

**Attach mixing tip**

The cap can be removed easily and safely by turning 90°.
The mixing tip can be attached safely via the notch on the cartridge. The ribbed surface of the retaining ring on the mixing tip allows slip-free and easy rotation and thus fixation.

**Apply temporary crown and bridge material directly into the impression**

The pointed mixing tip allows for precise dispensing. In addition, the MIXPAC™ T-Mixer reduces the volume lost and provides a homogeneous mixing result.

**Benefits at a glance**

- T-mixer for homogeneous mixing results and minimal material loss
- Mixing cannula extending from the tip for precise distribution
- Ergonomic cartridge for simple handling
- Butterfly for simplified distribution and optimal distribution of force

The cartridge fits the hand well. Use of the attachable MIXPAC™ Butterfly improves ergonomics and force exertion.
Revolutionary development for root canal fillings

«70% of prosthetic treatments are for non-vital teeth in need of a root fixation. So far, several materials, steps and methods were necessary to fill the root canal in a satisfactory way. The MIXPAC Colibri helps to treat the canal in only one step and in a good quality, even if the area is difficult to reach (narrow diameter, location of the tooth, especially if behind the canines, ability of the tip to be bended for easy access with no damage or loss of the inner volume, etc.).

The composite can now be applied close to the core and I have greater control over the material and, last not least, feel more secure.»

Stefen KOUBI, Associate Professor, Operative Dentistry, University of Marseille
To date, the filling of root canals involved numerous single steps and considerable effort in terms of materials and time. The MIXPAC™ Colibri contributes to making treatment possible in a single step, even in instances with limited access.

**THE APPLICATION – STEP BY STEP**

**Place Colibri on cartridge**

After removing the cap, the mixing tip can be attached safely via the notch on the cartridge. The ribbed surface of the retaining ring on the mixing tip allows slip-free and easy rotation and thus fixation.

**Controlled bending of the needle**

The use of a dental mirror can facilitate controlled bending of the needle. The material quality used prevents kinking of the needle during bending. The constant inner diameter assures a consistent flow of material. Depending on the situation, the bent needle can be rotated by 360° in stepless increments. This allows optimal handling during the application.

**Filling the root canal**

Needle is made of medical stainless steel. The rounded needle outlet supports easy handling in the root canal.

**Benefits at a glance**

- 360° rotatable, flexible needle for optimal ergonomics during use
- Consistent internal diameter of the needle for uniform material flowthrough
- Rounded needle outlet for safe application
The demand for cosmetic tooth treatments and in particular established bleaching, is experiencing increased demand. The innovative MIXPAC™ application system allows individual handling as part of tooth bleaching.

**THE APPLICATION – STEP BY STEP**

Attach brush for bleaching to mixing tip

Due to its optimal fit, the attachable MIXPAC™ brush is attached securely during application. The matched system ensures tightness at the interfaces despite the rotatable attachment. The attachment force required is kept as low as possible.

Ergonomic design and a pleasant tactile feel ensure that the cartridge lies well in the hand.

Bleaching individual tooth

The brush allows even application of the material. The fineness of each single bristle allows placing the material precisely and individually.

Benefits at a glance

- MIXPAC mixing cannula for homogeneous mixing result
- Brush with optimal pass safety and fine bristles for uniform distribution
- Ergonomic cartridge for simple handling

Attach mixing tip

System ready for use

A notch on the cartridge makes incorrect attachment impossible and prevents cross-contamination. The ribbed surface allows easy rotation and fixation of the mixing tip.
MIXPAC™ One-component Systems

Hygienic and safe, flexible and simple – to obtain optimal results we also apply innovative solutions in top quality to the MIXPAC™ one-component systems.

Using a unique closing mechanism and a high level of flexibility, the various MIXPAC™ single component systems assure pronounced user comfort at maximum possible safety and cleanliness.

The bodies
The single component system product range covers volumes from 0.16 ml to 2.7 ml. Available in black, white and transparent containers depending on the application.

The application attachments
Flexible application attachments facilitate the use of media with different viscosities. In addition to brush solutions, flexible and rotatable needles enable individual and dynamic working under various ambient conditions. The internationally standardized Luer Lock provides safe fixation of the screw-retained application needles.
MIXPAC™ Multicomponent Systems

The innovative MIXPAC™ application systems provide both patients and the specialists in dentistry with satisfied smiles. The diversity, flexibility and quality of the products opens up new opportunities for numerous dental applications.

Our application system consists of a dispenser, a cartridge, pistons, a cap, a mixing tip and an application attachment.

**The dispensers**
Our dispensing devices are characterized by a high level of user-friendliness, a long service life and reliability. In addition, they offer convincing ergonomic handling. They can also dispense highly viscous materials with precision and finely dosed.

**The cartridges**
The range of cartridges includes volumes from 2.5 ml to 75 ml. A major feature of all MIXPAC™ cartridges is the consequent separation of the two components. This increases stability during storage, prevents cross-contamination and thus allows multiple use.

**The mixing tips**
The portfolio includes different diameters, numbers of components and geometries. Our T-Mixers allow complex developments of materials and solutions. They provide clear homogeneous mixing results at low volume losses.

**The application attachments**
A broad range of accessories makes application in a host of clinical situations even easier and more precise.
Everything is in flux, everything is in motion, including developments. We know the way and are proceeding.
Sulzer Chemtech Ltd, a member of the Sulzer Corporation, with headquarters in Winterthur, Switzerland, is active in the field of process engineering and employs some 4000 persons worldwide.

Sulzer Chemtech is represented in all important industrial countries and sets standards in the field of mass transfer and static mixing with its advanced and economical solutions.

The activity program comprises:

- Process components such as fractionation trays, structured and random packings, liquid and gas distributors, gas-liquid separators, and internals for separation columns
- Engineering services for separation and reaction technology such as conceptual process design, feasibility studies, plant optimizations including process validation in the test center
- Recovery of virtually any solvents used by the pharmaceutical and chemical industry, or difficult separations requiring the combination of special technologies, such as thin film/short-path evaporation, distillation under high vacuum, liquid-liquid extraction, membrane technology or crystallization,
- Complete separation process plants, in particular modular plants (skids)
- Advanced polymerization technology for the production of PLA and EPS
- Tower field services performing tray and packing installation, tower maintenance, welding, and plant turnaround projects
- Mixing and reaction technology with static mixers
- Cartridge-based metering, mixing and dispensing systems, and disposable mixers for reactive multi-component material

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