MIXPAC™
Solutions for the Construction Industry

Innovation in Application
As the world's leading manufacturer of application systems we are building on years of experience and aim for the highest quality.
Tailored to meet your needs

Sulzer Mixpac provides solutions for the safe dispensing of one-component and two-component materials. Our systems are used successfully throughout the construction industry in building, civil engineering, and interior finishing. We develop economical application solutions that are ideally tailored to our customers’ requirements – Innovation in Application.

Your requirements
Construction technology is constantly evolving. The industry is innovative, yet certain processes remain conventional. Sulzer Mixpac contributes to problem solving. We do this by studying the market and responding proactively to the needs of our customers and users.

Our solutions
MIXPAC™ application solutions are found in a variety of construction applications. They are targeted toward ensuring high-quality workmanship, simplifying operations, and increasing efficiency.

As your partner, we are distinguished by our many years of experience within the construction industry, extensive research and development expertise, and proven manufacturing know-how.

Main construction industry applications
- Chemical Anchoring
- Solid Surface
- Crack Repair
- Waterproofing
- Roofing
Chemical Anchoring
Innovative anchoring for the construction process

Chemical anchoring relies on two-component mortar joints. Even the heaviest loads can be anchored simply, quickly, and safely onto mineral substrates. Chemical anchoring is becoming ever more important on job sites around the world. Sulzer Mixpac provides the perfect system solutions for its use.

Secure anchoring
The method has clear advantages. It replaces traditional metal anchors and opens up new possibilities, including connections extremely close to edges and small center-to-center distances. Threaded rods, rebars, steel sections, or finished components can be located anywhere with ease. When working in brick or concrete or in underwater applications, the advantages are impressive.

Easy to apply
We develop application solutions that are always focused on specific construction tasks; these are used by professionals to simplify their work on site and to conserve materials. The individual modular components are perfectly matched. The mixer, the cartridge, and the dispenser, together with any accessories, are all part of the overall solution. In combination with efficient processing, the innovative process saves time and money.

Leading technology
Our mixers, based on Quadro technology, guarantee special advantages: They are shorter than conventional mixers and therefore waste less material. The reduced back pressure during the mixing process results in minimal effort during dispensing. This has a positive effect on the whole system: Precise, fatigue-free operation with excellent results.

MIXPAC™ J, C and Q system solutions for chemical anchoring

- Mixers: based on Quadro mixing technology
- Cartridges: in side-by-side, coaxial and peeler formats
- Dispenser: for one-component and two-component systems. Manually, pneumatically or electrically powered
- Accessories: perforated sleeves, mixer extension tubes
Solid Surface
Smart surfaces

Mineral composites are currently fashionable as natural construction materials. These are used more and more frequently in interior finishing and architecture, where they are finding new areas of application. Sulzer Mixpac facilitates and simplifies the processing of these composites and offers the ideal application system for bonding and sealing.

Feels good
Mineral composites are very similar to natural stone. This explains their popularity. They are made from natural minerals and durable resins. The material can be deformed using thermal or injection methods, so that even curved parts can be prepared and processed in this way. Mineral composites can be used in a variety of applications, including in kitchens and bathrooms, in store construction and furniture, in hotels and restaurants, in facades, hospitals and public spaces.

Solid characteristics
Mineral composites have no pores, are antibacterial, hard and very robust. The materials are easy to maintain and can easily be repaired. The material can be treated just like wood, except that it is not nailed and screwed but glued and sealed. Perfect adhesive joints and seals prevent the ingress of liquids. This emphasizes the highly hygienic characteristics of mineral composites. Our extensive know-how in this field makes us the leading global market provider, the partner of choice.

MIXPAC™ system solutions K, B and F for Solid Surface
• Mixers: based on Helix and Quadro mixing technology
• Cartridges: in side-by-side format
• Dispenser: for two-component systems. Manually or pneumatically powered
• Accessories: mixer tips for precise dispensing, cartridge converters
Sulzer Mixpac makes it easier to repair cracks, holes, or joints. Manufacturers use materials such as crack sealants, epoxy resins, or cement mortar for renovation and repair work. Sulzer Mixpac provides the know-how for packaging, metering, mixing, and dispensing systems with proven system solutions for fast and reliable repairs.

**Wide range of applications**
Damage repaired to perfection. There are countless crack repair applications since cracks can occur almost anywhere: In floors, walls, pipes, stoneware or cast concrete, ceramic tiles, bricks, sewers, manholes, swimming pools or concrete pools. Innovative potting materials also prevent the penetration of water and dirt and protect against frost damage.

**The move towards two-components**
Sophisticated two-component materials are increasingly being used in addition to one-component materials. For example, two-component cold-sealing compounds in cartridges are ideal for repairing minor damage. Two-component materials speed up work, thereby maximizing efficiency. The material dries quickly and does not shrink. The possible uses of two-component materials that generate real added value are far from being exhausted.

**MIXPAC™ system solutions**
**J, C and Q for crack repairs**
- **Mixers:** based on Quadro mixing technology
- **Cartridges:** in side-by-side, coaxial and peeler formats
- **Dispenser:** for one-component and two-component systems. Manually, pneumatically or electrically powered
Waterproofing
Coating technology for professionals

Two-component coatings seal surfaces, caulk them and protect them from penetration by water or UV rays, and also from abrasion and fire. The scope of the qualities and functions of modern two-component materials is astonishing. With Mixcoat technology Sulzer Mixpac offers a pioneering application system for small-scale applications and repairs.

Wide range of application areas
Progress in the two-component coating techniques is constantly opening up new application areas. Gabled and flat roofs, facades, foundations, pools and equalization basins are some of the items that can be coated. Coatings provide effective protection against incoming fluids, water, gases and weathering, especially for concrete structures. The non-porous and dense protective layers generally have high tensile and compressive strength and are therefore suitable for almost any application. In interior finishing, floors can be given a protective finish. They reduce wear, provide a seal and enhance the appearance. Examples: Designer floors, laboratories or clinics that require specially sealed floors for hygienic reasons.

Mixcoat technology
Our system solutions are based on Mixcoat technology. The semi-automated method works quickly, is easy to use and guarantees precise mixing ratios for high-quality spray coatings. The cartridges are resealable and therefore reusable. Separate cartridge outlets protect against the cross-contamination of materials. The particular technology, combined with proven two-component cartridges and spray mixers, constitutes a complete system – a cost-effective alternative to conventional mixing and application by hand.

MIXPAC™ system solutions for waterproofing
- **Spray mixers**: based on Quadro mixing technology for Mixcoat Spray and Flex
- **Cartridges**: in side-by-side format for Mixcoat Spray and Flex
- **Dispenser**: for Mixcoat Spray and Flex. Manually or pneumatically powered
- **Accessories**: Brush applicator
In buildings with flat roofs emphasis is increasingly being placed on thermal and sound insulation. Fully-bonded roof structures guarantee structural building safety and the best results in terms of longevity. Vapor barrier, thermal insulation and waterproofing layers can be point- or strip- bonded together.

Advantages of bonding
Bonding is usually more economical as processing with MIXPAC™ system solutions is easy and saves time and material costs. Our mixers provide perfect mixing results with minimal pressure drop. And for every application. The bonded connections are permanently flexible and temperature-stable. Sulzer Mixpac, working closely with the world’s leading adhesive manufacturers, simplifies the bonding process, thereby optimizing application.

New applications in the construction industry
New adhesive bonds keep finding their way into new fields of application. Bonding tends to be simpler, faster and more reliable than using screws. The use of adhesives is widespread in the assembly of prefabricated components, the bonding of glass, concrete, metal and wooden parts and the attachment of small components. It is commonplace in interior finishing. The gluing of windows, flooring or electrical installations goes with the job and adhesives have become indispensable in kitchen and furniture construction.
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Mixer
– Helix mixer technology
– Quadro mixing technology

Cartridge
– Side-by-side, coaxial and peeler formats
– Different materials, volumes and mixing ratios

Dispenser
– Power sources: manual, pneumatic or electrical
– Varying dispensing powers
Succeeding Systematically
MIXPAC™ system benefits

Sulzer Mixpac provides you with system solutions from a single source. Tailored precisely for your construction applications. As a Swiss company with a global presence, we ensure that our solutions are continually developed and optimized.

**MIXPAC™ systems approach**
The right product for every application. All systems consisting of a mixer, cartridge and dispenser are designed and manufactured by Sulzer Mixpac.

**Perfect two-component mixing technology**
Sulzer Mixpac provides the most efficient mixer on the market, based on Helix mixers and our own Quadro-mixing technologies.

**Economical solutions**
Cartridges can be resealed and subsequently reused.

**Comfortable handling**
Easy handling and ergonomics ensure effortless and efficient work.

**Ultimate safety**
Our products offer maximum process safety. The individual components work together perfectly, are easy to use and achieve consistent mixing results.

**Swiss Technology**
MIXPAC™ system solutions are developed in Switzerland and manufactured to the highest quality standards.

**Worldwide operations**
All components are available worldwide via an international distribution network, making Sulzer Mixpac the world’s leading suppliers.

**We’re with you all the way**
Right from needs analysis, development and production through to successful implementation. Experienced industry experts and technical specialists working hand in hand with you.
Anything to help you get ahead

Our expertise in the packaging, dispensing, mixing, and delivery of one-component and two-component materials is supported by our customer-oriented service. This includes everything that can contribute to the optimization of systems, products and processes.

Research
Sulzer Mixpac carries out valuable basic research in the fields of mixing and application technology. We constantly monitor the market, keep abreast of current trends, explore new solutions and optimize existing systems. So we are forever keeping the construction industry’s needs in mind.

Developing solutions in close cooperation
We develop our application solutions working in close cooperation with specialized material manufacturers, accompanying them from initial ideas through to sales and beyond. We partner with a variety of colleges and universities, as well as renowned scientific research institutions.

State of the art laboratory technology
In our laboratories we are working on practical solutions of the future and testing them thoroughly. How should products be packaged, mixed and delivered and what systems can we devise to ensure that our customers get the best results? As part of our mission we test new processes and applications to ensure optimum results.

Application testing
- Durability – Longevity
- Cartridge quality and shelf life
- Dispensing – dispensing pressures, speed of flow, mixture quality
- Materials tests – Mixing method, mixing quality, viscosity
- Spray tests – material suitability, optimum application temperature and spray layer density

Physical tests
- Compatibility – how two-component materials react with each other, optimum (cartridge) packaging and storage
- Computed tomography (CT) and X-ray analysis
- Dynamic flow simulation (CFD)
Sulzer Chemtech AG, a member of the Sulzer Group headquartered in Winterthur, Switzerland, is active in process engineering and employs approximately 4000 people worldwide. Sulzer Chemtech is represented in all major industrial countries and focuses on the field of mass transfer and static mixing and is the benchmark for advanced and cost-efficient solutions.

Our range of services includes:
- Process components such as fractionation trays, structured and random packings, liquid and gas distributors, gas-liquid separators, and internals for separation columns
- Services in the field of separation and reaction technology such as energy consumption optimization, plant optimization consultancy, studies, local authority engineering, basic engineering
- Methods for separating and purifying organic chemicals by means of fractional crystallization and membrane technology
- Novel polymerization technology for the production of PLA and EPS
- Installation and maintenance services for separation columns
- Mixture and reaction engineering using static mixers
- Mixer and cartridge technology

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