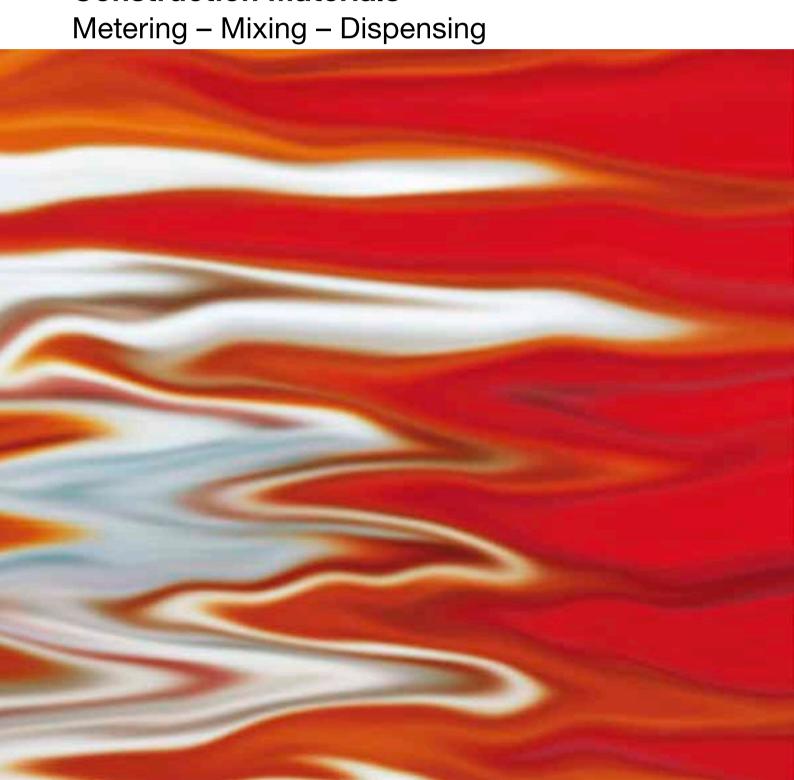


Sulzer Chemtech

Sulzer Mixpac systems for 2-component Construction Materials



Sulzer Mixpac application systems for 2-component construction materials

Sulzer Mixpac is the leading global manufacturer of 2-component mixing systems for construction applications using 2-component construction materials. With more than 20 years of experience in the field, Sulzer Mixpac can draw on its unique expertise and understanding of typical application markets for 2-component mixing systems.

Progressive technologies are the hallmark of Sulzer Mixpac 2-component products and systems for the construction industry. Sulzer Mixpac is setting the standard in the field of multi-component mixing systems worldwide.

The unique pistons and mixers are examples of its cutting-edge technologies. Vented pistons guarantee filling of both 2-component materials at maximum speed without air bubbles. QUADROTM mixers in turn stand for maximum mixing performance with a minimal loss of pressure.

This is only a small selection of the advantages that Sulzer Mixpac products and systems for 2-component applications are providing to the construction industry. Bonding, fastening and coating using 2-component systems have gained more and more importance in the construction industry over recent years. Stricter requirements with regard to the safety and durability of structures in the different areas of the construction industry are important reasons for this development.

Instead of using mechanical joints that corrode over time, adhesive bonding is being used for an increasing number of products such as windows and concrete elements. The use of protective coatings, for example moisture barriers, corrosion protection and anti-slip coatings, is becoming increasingly common.



38 painters have been working non-stop since 1980 applying the necessary protective coating to the steel structure of the Golden Gate bridge in San Francisco, CA

The use of the correct mixing and metering system is critical, especially in the case of 2-component mixing systems. The shelf life of the two components, the user-friendly application and, above all, the quality of bonding depend on it.











System overview

MIXPAC™ B-system: Double Syringe

2-component double syringe 25 ml volume Mixing ratio 1:1



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MIXPAC™ C-system/J-system: Side-by-side cartridges

2-component cartridges Volumes from 235 ml to 1500 ml Mixing ratios of 1:1, 2:1, 3:1, 4:1 and 10:1

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MIXPAC™ Q-system: Coaxial cartridges

2-component cartridge system Volumes from 75 ml to 380 ml Mixing ratio 10:1



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MIXPAC™ Q-system: Peeler cartridges

2-component cartridge system Volumes from 265 ml to 280 ml Mixing ratios of 1:1, 2:1 and 10:1



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MIXPAC™ and QUADRO™ Mixer for C-, J- and Q-systems

2-component mixer
For different cartridges and mixing ratios



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QUADRO™ High Flow mixer:

2-component mixer with accessories For high flow rates



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Accessories

For MIXPAC™ and QUADRO™ mixers



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MIXPAC™ valve piston

For MIXPAC™ side-by-side and coaxial cartridges



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MIXPAC™ C-, J- and Q-systems: Air Assist Spraying

For MIXPAC™ side-by-side cartridges



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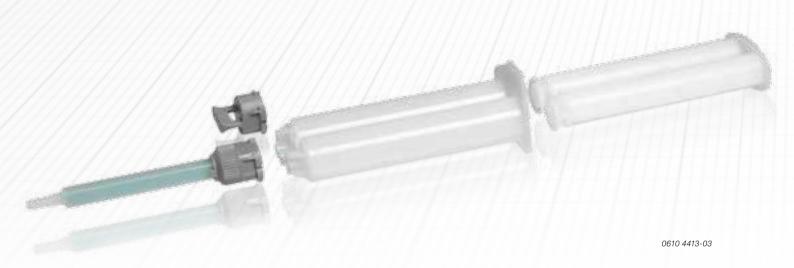
2-component fields of application (professional application, Do It Yourself):

- Chemical anchoring/dowelling
- Assembly using 2-component adhesives

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MIXPAC™ B-system: Double Syringe

2-component double syringe 25 ml volume



Product range:

The B-system Double Syringe with a 25 ml volume and a mixing ratio of 1:1 is the ideal dispensing system for many 2-component materials in construction. The ergonomic design of the Double Syringe facilitates simple and flexible handling.

The patented interface and the compatible closure cap guarantee airtight closure of the cartridge and prevent undesirable cross-contamination.

This ensures clean and safe storage of the 2-component material in the cartridge.

For further information on the different models, please refer to the relevant data sheets on our homepage at www.sulzerchemtech.com, or contact us directly.

Product advantages	Customer benefits
Resealable patented interface	Quick mixer assembly Safe and easy to use Safe and clean storage
Rigid design	Precise metering – accurate application Ergonomic Excellent long-term stability and leakproof tested
QUADRO™ mixing technology	Excellent mixing performance Less backpressure Minimal waste volume
Individual configuration	Supports branding
Wide range of mixers	Optimal mixer for every application



- Chemical anchoring/dowelling
- Protective coatings
- Flooring
- 2-component adhesives in construction

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MIXPAC™ C-system/J-system: Side-by-side cartridges

2-component cartridges
Volumes from 235 ml to 1500 ml



Product range:

Type C and J side-by-side cartridges cover a wide range of 2-component applications in construction. Our cartridge systems are available in volumes ranging from 235 ml to 1500 ml, and in mixing ratios of 1:1, 2:1, 3:1, 4:1 and 10:1. All cartridges are available with our patented valve pistons.

Sealable and closed pistons are available with certain cartridges. For further information and to view a video showing how cartridges are filled using valve pistons, please visit our homepage at

www.sulzerchemtech.com, or contact us directly.

Product advantages	Customer benefits
Rigid design	Precise metering – more accurate application Excellent long-term stability
Valve pistons	Safe and fast filling No air pockets
Leakproof tested	Safe storage and application of the 2-component material up to +40 °C
QUADRO™ mixing technology	Excellent mixing performance Minimal pressure loss High dispensing performance
Wide range of mixers	Optimal mixer for every application

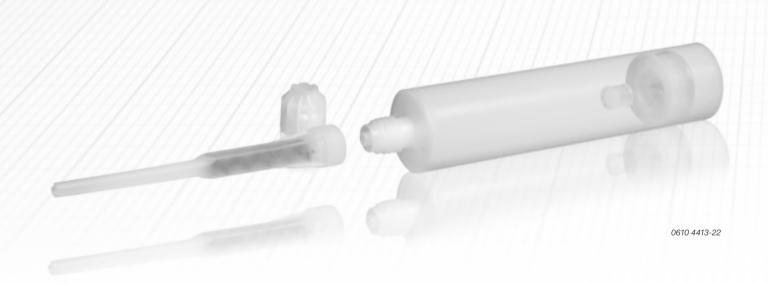


- Chemical anchoring/dowelling
- 2-component adhesives in construction

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MIXPAC™ Q-system: Coaxial cartridges

2-component cartridges Volumes from 75 ml to 380 ml



Product range:

Q-system coaxial cartridges are used especially for chemical anchoring/dowelling. The standard product offering includes volumes from 75 ml to 380 ml with a 10:1 mixing ratio. All cartridges are available with our patented valve pistons.

Sealable and closed pistons are available with certain cartridge models. For further information and to view a video showing how cartridges are filled using valve pistons, please visit our homepage at www.sulzerchemtech.com, or contact us directly.

Product advantages	Customer benefits
Rigid design	Precise metering – accurate application Ergonomic Excellent long-term stability
Valve pistons	Safe and fast filling No air pockets
Leakproof tested	Safe storage and application of the 2-component material up to +40 °C
QUADRO™ mixing technology	Excellent mixing performance Minimal loss of pressure
Wide range of mixers	Optimal mixer for every application

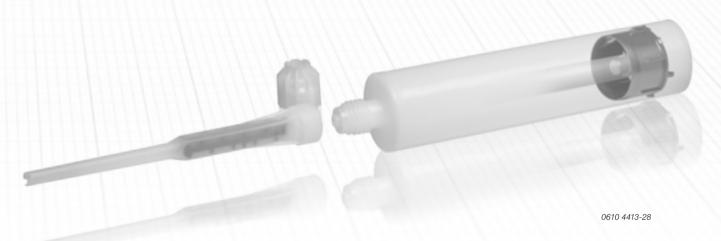


- Chemical anchoring/dowelling
- 2-component adhesives in construction

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MIXPAC™ Q-system: Peeler cartridges

2-component cartridges
Volumes from 265 ml to 280 ml



Product range:

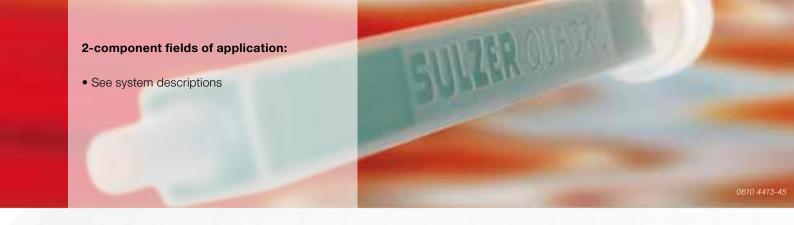
The 265 ml Q-system Peeler cartridge is available in mixing ratios of 1:1 and 2:1. The 280 ml cartridge is available in a mixing ratio of 10:1. They are compatible with the most common 1-component dispensers. For this reason, the Peeler is ideal for a wide range of industrial and construction applications, especially chemical anchoring, structural adhesives and processing of 2-component PU adhesives.

The Peeler cartridge consists of a cartridge body and

an internal tube, allowing both 2-component materials to be fed in separately. Likewise, there are inner and outer sealing pistons.

For further information on the different models and to view an instructional video, please visit our homepage at www.sulzerchemtech.com, or contact us directly.

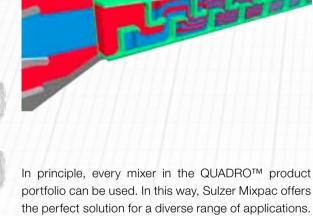
Product advantages	Customer benefits
Precise metering	As the two components are mixed at a constant ratio, this ensures that the strength of the bond also remains constant
Low application force (particularly in combination with the QUADRO $^{\rm TM}$ mixer)	User-friendly and precise Less time-consuming
Compatible with 300 ml single-component dispensers	Wide range of potential applications
Cartridge can be filled nose and back	Saves time and money during filling process
Reliability of cartridges	Pressure resistant, no "blow-by" effect Complete cartridge contents can be used without cross- contamination Reliable transportation
Economical and ecological	Minimal waste material in cartridge

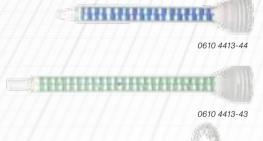


QUADRO™ mixers

Static mixers for 2-component materials

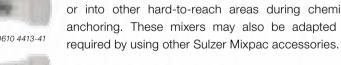
Sulzer Mixpac provides a suitable QUADRO™ mixer for virtually all applications in the industrial and construction sectors.





portfolio can be used. In this way, Sulzer Mixpac offers the perfect solution for a diverse range of applications.

QUADRO™ mixers offer a unique option to allow 2-component materials to be applied into drill holes ng chemical adapted as



The state of the s	
- And Annie Control of the Control o	or into other hard-to-reach areas durin
1-18	anchoring. These mixers may also be
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Product advantages	Customer benefits
Short mixer featuring reliable mixing technology	Minimal pressure loss - lower back pressure
	Precise and fatigue-free dispensing
	Waste volume reduced by up to 50%
	Withstands very high operating pressures
	For use with 2-component products that are difficult to mix
	Precise metering at high dispensing rates
	Optimal homogenous mixing of the two components



QUADRO™ High Flow mixers

2-component mixer with accessories for high flow rates



The QUADRO™ High Flow mixer was developed for dispensing large amounts and high-viscosity products. The patented QUADRO™ mixing technology uses a large mixer diameter and open mixer structure to minimize the required application pressure.

For applications with 2-component materials of particularly high viscosity and/or particularly long injection ope-

nings (e.g. chemical anchoring), an attachable extension that uses integrated helical mixing technology is available as an option.

 $\mathsf{QUADRO^{TM}}$ High Flow mixers are available in four configurations, based on the application requirements.

Our extension tube is available with or without a helical mixing element installed.

Product advantages	Customer benefits
QUADRO™ technology	Pressure-reduced, precise and fatigue-free dispensing For use with 2-component materials that are difficult to mix Optimal homogenous mixing of the two components
Modular design	Can be customized for different applications
Withstands high application pressure	Effortless dispensing of high-viscosity 2-component materials

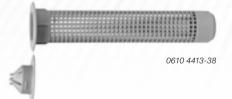


- Chemical anchoring/dowelling
- 2-component adhesives in construction

Accessories

Compatible accessories - exact optimization

Various applications can be simplified and optimized by additional adjustment of the 2-component dispensing systems. Sulzer Mixpac offers application-specific accessories that are compatible with most Sulzer Mixpac systems.



The "perforated sleeves" support chemical anchoring to brick walls.





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The "flow restrictor" prevents self-emptying when using low-viscosity adhesives. For side-by-side and Peeler cartridges.



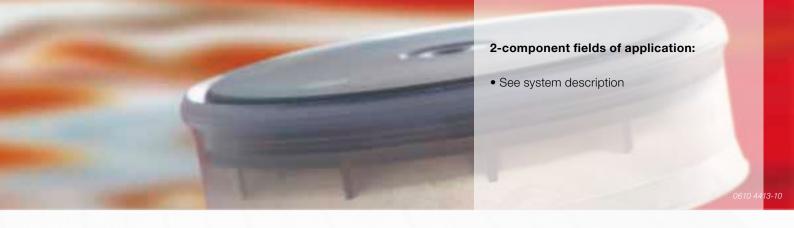
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The "retaining nut" is used for attaching the mixers to the cartridges.



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"Ribbon adapter" - the wide tips can be cut to the required width for the respective adhesive.



C-, J- and Q-systems: Valve pistons

For MIXPAC™ side-by-side and coaxial cartridges

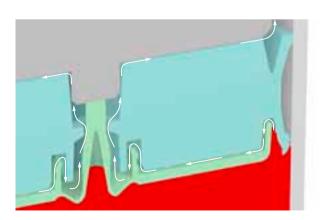


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Typically, the pistons are inserted into the two cartridge bodies after filling. The pistons seal the cartridge and are then pushed towards the outlet during dispensing. It is important that filling and venting is simple, and that the cartridge is leakproof. Along with the standard closed and sealable piston types, Sulzer Mixpac offers a new piston technology: The patented valve pistons for side-by-side and coaxial cartridges.

Safe and fast filling - saves time and money

The self-venting valve pistons from Sulzer Mixpac allow excess air in the cartridge to escape during the insertion process. Sulzer Mixpac is setting a high standard for 2-component side-by-side cartridges with this unique technology that allows faster and safer filling of cartridges.



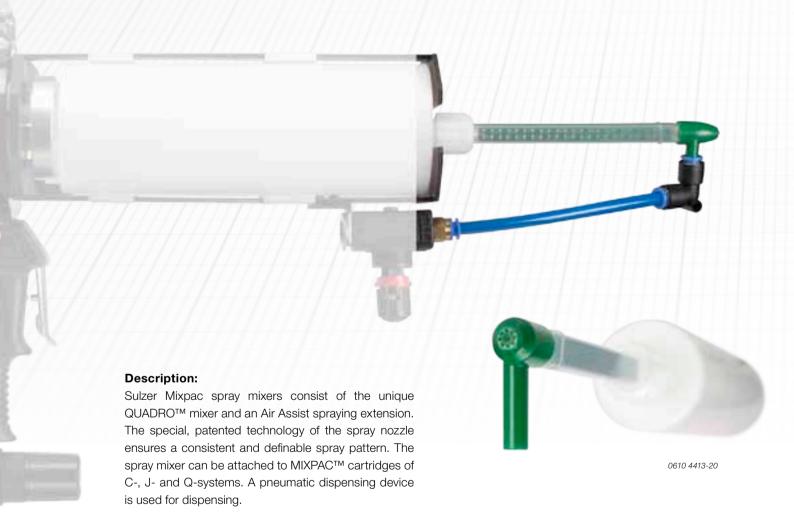
For further information on the different models and to view an instructional video, please visit our homepage at www.sulzerchemtech.com, or contact us directly.

- Marine
- Civil engineering



MIXPAC™ Q-system: Air Assist Spraying

For MIXPAC™ side-by-side cartridges



Product advantages	Customer benefits
Clearly defined spray geometry	Minimum overspraying resulting in an extremely low loss of material and clean application
Consistent spray geometry	Quick and efficient application Uniform thickness of layers



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