

www.sp-reinforcement.eu

HEAD OFFICE

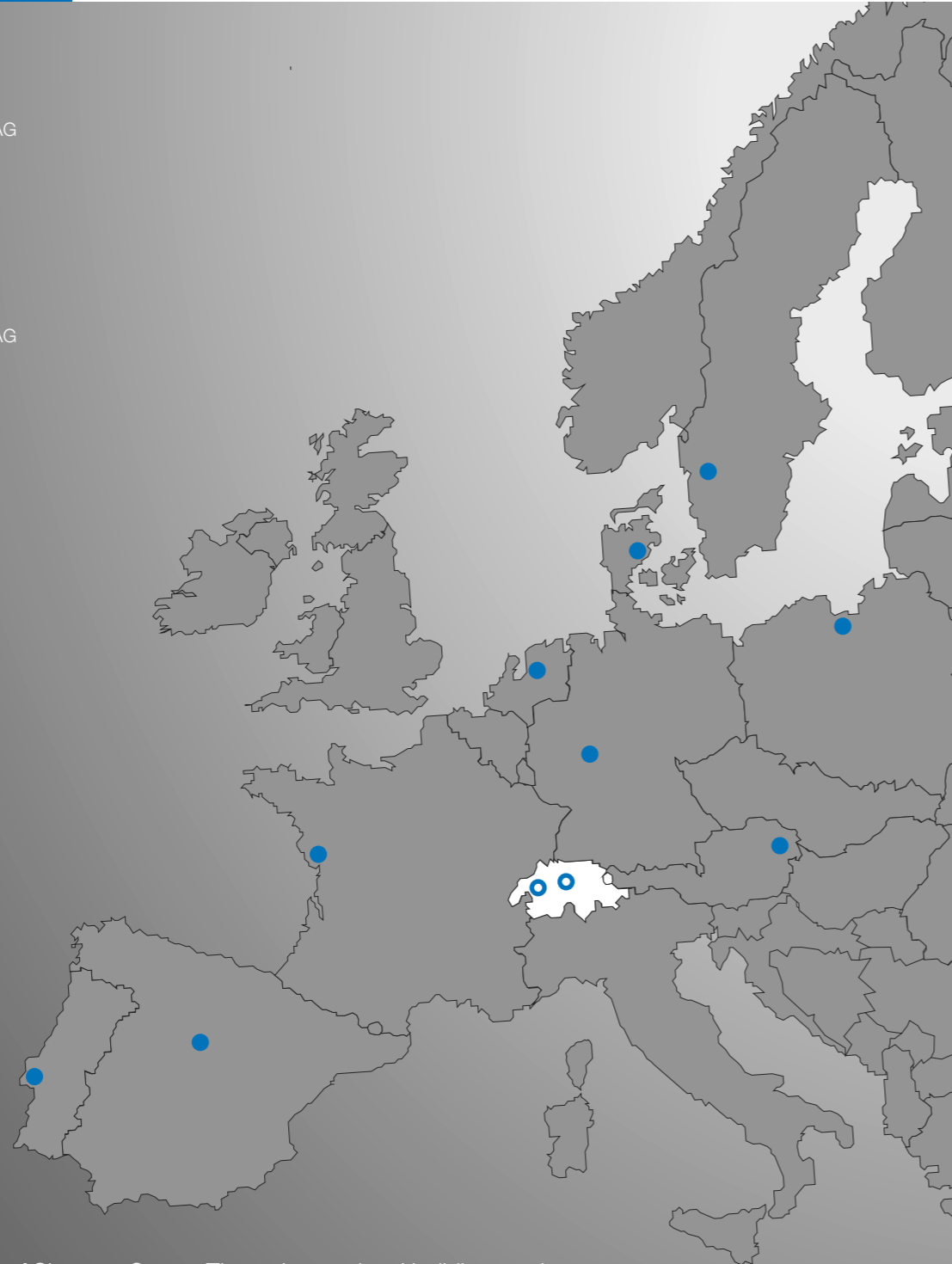
S&P Clever Reinforcement Company AG
Seewernstrasse 127
CH-6423 Seewen
Phone: +41 41 825 00 70
Fax: +41 41 825 00 75
Web: www.sp-reinforcement.ch
E-Mail: info@sp-reinforcement.ch

WESTERN SWITZERLAND

S&P Clever Reinforcement Company AG
Chemin de Prairies 12
CH-1630 Bulle
Phone: +41 26 321 50 30
Fax: +41 26 321 50 31
E-Mail: info@sp-reinforcement.ch

OTHER LOCATIONS IN EUROPE:

Austria
Benelux
Denmark
France
Germany
Poland
Portugal
Spain
Sweden



Since 2012 S&P has been part of Simpson Strong-Tie, an international building products company based in California with multiple locations across Europe.

Simpson Strong-Tie was founded in 1956 and has established itself as the world-wide leader in wood-to-wood, wood-to-steel and wood-to-concrete structural connectors.

The company is committed to helping customers succeed by providing exceptional code-listed products, full-service engineering and field support, product testing and training, and on-time product delivery. With the acquisition of S&P, Simpson Strong-Tie continues to expand its offering to include a full array of concrete repair, protection and strengthening solutions. By combining the strengths of our two brands, Simpson Strong-Tie and S&P can offer the highest level of quality and service to meet all your concrete repair, strengthening and restoration needs. We look forward to working with you on your next project.

Contact us: +41 41 825 00 70



S&P ARMO-System Shotcrete and Spray Mortars with Carbon Mesh

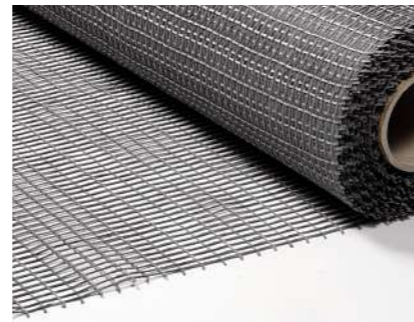
- S&P ARMO-mesh®
- S&P ARMO-glass fibre reinforcement
- S&P ARMO-crete®
- S&P ARMO-mur®



S&P ARMO-System

COMPETENCE FROM ONE SOURCE: CONCEPT, CONSULTANCY, QUALITY PRODUCTS, APPLICATION

The S&P ARMO System consists of the special mortar S&P ARMO-crete® and the carbon fibre reinforcement mesh S&P ARMO-mesh®. The system is used for static reinforcement in structural/civil engineering, building construction and tunnelling. It can be installed either via the wet-spray method or the dry-spray method onto both concrete and masonry substrates. Due to the corrosion resistant properties of the carbon fibre mesh, it is possible to install the mortar at a significantly lower thickness than traditional methods. The amorphous silica coating on the S&P ARMO-mesh®, together with the reactive component in the S&P ARMO-crete® mortar, results in an intensified bond between the mesh and the mortar, as well as an increase in anchorage. The result is a fibre reinforced mortar with high fire resistance. The mortar also meets the requirements for the highest abrasion resistance. An S&P specially developed mixing and pumping system enables the mortar to be fed directly from a silo, ensuring that the installation process can be optimised economically and efficiently. For construction applications, the S&P ARMO-glass fibre reinforcement mesh can also be used. The S&P software ARMO (flexion/axial) can provide the needed static design if required.



ADVANTAGES

- Structural strengthening with thin layer
- No corrosion in carbon
- High resistance to fire
- Very high abrasion resistance
- Flexible application (also overhead)
- Optimized construction site organization
- No spray shadows
- No interference with subsequent milling works
- Tested system solution with system guarantee

Application



1 Pipe construction



2 Sewer construction



3 Tunnel construction

Our Products

S&P ARMO-MESH®

Reinforcement mesh coated with amorphous silica (uni- or bidirectional)

Size	C200, L200, L500, L600, 200/200, 500/500
Width of roll	1.95 m (C200: 0.97 m)
Length of roll	50 m

S&P ARMO-CRETE®

Reactive spray/shotcrete mortar (wet-spray or dry-spray method)

Types	ARMO-crete® w RQ (wet) ARMO-crete® d (dry)* ARMO-crete® RC (additive for mortar)
Sizes / Additives	* can be delivered in different grain sizes and with different additives (accelerator, microsilica or sulphate-resisant cement)
Delivery form	Bag and/or bulk

S&P ARMO POWER PUMP

The S&P ARMO Power Pump has been developed specially for the S&P ARMO-crete® w (wet sprayed mortar). The pump can be fed directly from a silo or from bags of material.

Please visit our website at www.sp-reinforcement.eu for further information:
References/Technical data sheets/Text of specification/Research reports/Publications

S&P ARMO-GLASS FIBRE REINFORCEMENT

Constructional reinforcement (anti-shrinkage) made from AR-glass fibres (bi-directional)

Width of roll	1.50 m / 2.20 m
Length of roll	70 m / 100 m

S&P ARMO-MUR®

Reactive rendering mortar for masonry (for indoor and outdoor use)

Delivery form	Bulk
----------------------	------



4 Building construction (seismic retrofit, reinforcement of columns)



5 Civil engineering (ensuring the safety of excavations, retaining walls)



6 Historical buildings (reinforcement of masonry)