



A Simpson Strong-Tie® Company

APPLICATION MANUAL FOR S&P ARMO-SYSTEM



Wet-spray method



Application manual for S&P ARMO-System Wet-spray method



On the day prior to the application, water the bearing substrate to full capillary saturation. The roughness should be 3-5 mm.

When applying the first layer of mortar, the substrate must be free from any surface water or pooling.



Mix the S&P ARMO-crete® w bag of 25 kg with 3.6~3.8 liter of water - depending on the consistency of the shotcrete mortar. Mix with a mechanical mixer for at least 3 minutes until the mixture is homogeneous. The mixture should rest 1 minute, then be re-mixed for another 10 seconds before application.

Do not add additional water after the setting process has started.



Apply the first layer S&P ARMO-crete® w on the slightly damp substrate.

Before inserting the S&P ARMO-mesh®, a layer of mortar at least 5 mm thick must be applied. The maximum thickness per layer is 3 cm (2 cm when applied overhead).



Incorporate the S&P ARMO-mesh® into the fresh S&P ARMO-crete® w. This is done by pressing the S&P ARMO-mesh® into the mortar using a trowel. Ensure that the fibers of the reinforcement are stretched out as much as possible.

For overhead application, it is a good idea to fixate the S&P ARMO-mesh® onto the substrate to avoid sliding.



Apply the second layer of S&P ARMO-crete® w onto the uncured first layer of mortar (wet on wet). Once the setting process has started, the mortar can be troweled up and grinded to the desired thickness.

If the second layer is not applied on the same day, the first layer needs to be roughened before the end of work with a broom or even better washed with very light pressure (spray) until the aggregates are visible.

Any laitance on the first layer must be removed before applying the second layer!



After the application, the shotcrete mortar should be protected against drying out (sun and wind exposure), and must be kept moist for up to 7 days.



Accessory: S&P ARMO Power Pump

The pump can be fed directly from a silo or from bags of material. The patented post-mixer guarantees that the mortar's required mixing time is observed. The water column ensures a constant addition of water.

SAFETY

Measures regarding occupational safety (protective clothing/accident prevention) are a prerequisite.

NOTES

The **material consumption** is approximately 22 to 25 kg per m² and cm layer thickness

Static reinforcement: S&P ARMO-mesh L600, L500, L200, C200, 200/200 and 500/500

Constructive reinforcement: S&P ARMO-glass fiber reinforcement

Fastening products and rental equipment available upon request.

More information about the S&P ARMO-System and all technical data sheets, as well as all safety data sheets, are available at www.sp-reinforcement.eu

S&P Clever Reinforcement Company AG
Seewernstrasse 127
CH-6423 Seewen
Tel.: +41 41 825 00 70
www.sp-reinforcement.ch
info@sp-reinforcement.ch

