

DATASHEET

Servoflex DMS 1K Plus SuperTec

Flexible, single-component, cementitious waterproofing membrane

- dries rapidly and can be worked on after 3 hours
- single-component without fibres
- flexible and crack bridging properties
- high coverage and stability
- for internal, external and submerged areas
- can be used as a composite seal under ceramic coverings
- wall - and floor faces inside in accordance to DIN 18534, W0-I - W3-I (without chemical loading)
- floor faces, exterior in accordance to DIN 18531-5
- wall - and floor submerged areas, interior and exterior in accordance to DIN 18535-5
- with the "building control authority's general test certificate"



SuperTec



Bestens geeignet für
Okalift SuperChange

PRODUCT DESCRIPTION

Cementitious flexible waterproofing membrane for sealing buildings against surface water as well as water under pressure. The thin layer enables **Servoflex DMS 1K Plus SuperTec** to offer constructional advantages: It is also suitable to use as a seal internally and externally on the wall surface and floor surface in a composite construction under natural dressed stone (ashlar) coverings and ceramic coverings of new buildings and old buildings. It is suitable to use as a substrate according to the moisture-loading class, e.g., plasters in Mortar Groups II & III (DIN 18 550 Parts 1 & 2), concrete (DIN 1045), aerated concrete building boards (DIN 4166), cavity wall building boards made from lightweight concrete (DIN 18 148) or cement screeds, cast asphalt screeds and calcium-sulphate screeds (DIN 18 560).

Servoflex DMS 1K Plus SuperTec provides thin structured uncoupling characteristics and reduces tensions.

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Servoflex DMS 1K Plus SuperTec can be used in residential and commercial swimming pools on wall and floor surfaces. The height of the tank must not exceed 4.0 m. When exceeding heights of the pool basin between 4-10.0 meters use **Okapox GF-M** or **Okapox royal** to adhere Kiesel based sealing/waterproofing tapes and sealing flanges, including shocks exposed elements.

Suitable substrates depending on the levels of humidity, for example: plasters of mortar groups II + III (DIN 18 550 part 1 + 2), concrete (DIN 1045), poured concrete (DIN 4166), are made from lightweight structural concrete walls (DIN 18 148) or cement, mastic asphalt and calcium sulphate screeds (DIN 18 560).

Servoflex DMS 1K Plus SuperTec meets the requirements of the TDS of the German Association of Tiles and Natural stone on the subject "bonded waterproofing" and "Swimming pools". These recommendations and the guidelines regarding proper drainage systems must be observed. Use only as product solution with the below listed adhesive mortars in accordance to "General Building Supervision Certificate" with the test number P-5182/618 / 10th MPA BS of Materials Testing for building TU Braunschweig.

Servofix KM-F Plus

ServoStar® 1500

ServoStar® 2000

ServoStar® 5000

ServoStar® 3000

Okamul DZ 18

Servoflex-Trio-SuperTec

Servoflex-Trio-schnell SuperTec

Okapox royal

Servoflex K Plus SuperTec

Servolight SuperTec

Servolight S2 SuperTec

SUBSTRATE PREPARATION

The dry or moist substrate must have a clean, sound, fine-pored and largely flat surface. Treat the surface by abrasive blasting (water or sandblasting) or by sanding/grinding it down. Prepare and patch any holes, voids or cracks in separate working operation, e.g., with **Servocret RS**. Small holes and indentations can also be retouched on account of the high stability. Pre-coat any non- absorbent substrates with **Okatmos® UG 30**.

Okatmos® UG 30 is also suitable on absorbent, dry substrates on external areas. Concrete walls in submerged areas must be roughened to improve the adhesion, e.g., by sanding-blasting. Primer any old, sound, floor tile coverings that are free of cracks and prime exterior and interior areas with Okatmos® UG 30.

Prime decorative surfaces such as **ServoArt®**, Stucco with undiluted **Okatmos® UG 30** and apply **Servoflex DMS 1K Plus SuperTec** and let it dry completely.

PROCESSING

In the submerged areas use 3 mm square notched trowel, second and third application 4 mm square notched

trowel. Then pull the webs smooth. Control the overall thickness while is wet.

To avoid cracking in corners, use the waterproofing tape or interior/exterior corners and embed them into the fresh waterproofing membrane. For additional sealing of pipe protrusions and drainage system use waterproofing sleeve „wall“ and „floor“ and embed them into the fresh waterproofing membrane following with a top coat.

Waterproofing tape joints must be overlapped at least 6 cm.

At a water depth exceeding 4.0 meters use waterproofing band and with **Okapox GF-M** or **Okapox royal**. Spread oven-dried quartz sand on its surface. Preferably use the only floor drains with a fixed and loose flange.

Mix **Servoflex DMS 1K Plus SuperTec** to a spreadable consistency and imbed floor sleeve immediately. Use **Okamul PU-EM** when dealing with the metal of smooth surface artificial substrates.

SPECIFICATIONS

Color	grey
Application	interior, exterior and submerged conditions
Water pressure resistance*	after 7 days
Density	1,2 kg/l (mixed material)
Application temperature	+5 °C to +25° C (substrate)(41 °F to 77 °F)
Temperature tolerance	-20 °C to +80 °C (-4 °F to 176 °F)
Water demand	spreadable: approx 1.03 US gal./33 (lbs bag (approx. 3,9 l/15 kg powder brushable: approx 1.18 US gal./33 (lbs bag (approx. 4,5 l/15 kg powder
Slack time	approx. 5 minutes (restir)
Processing time*	approx. 40 minutes
Walkable* / ready for installation*	after approx. 3-4 hours
Drying time*	after approx. 3 hours
Ready for exposure to rain *	after approx. 12 hours
GISCODE	ZP 1 - low in chrome according to TRGS 613
Storage	month in the dry area, unopened packing, approx. 12 months

* At 68 °F (+20 C) and 65 % relative humidity. Higher temperature and low humidity decrease, lower temperature and high humidity increase this value respectively.

COVERAGE

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Tools: Brush, leveling trowel, broom, 6 mm (1/4") square-notched trowel

	Coverage Powder	Wet layer thickness	Dry layer thickness	Layers
Ground humidity, Ground and surface water (unpressurized)	min. 2,2 kg/m ²	min. 1,7 mm	min. 1,5 mm	min. 2
Waterproofing classification: A	min. 2,4 kg/m ²	min. 2,2 mm	min. 2,0 mm	min. 2
Waterproofing classification: B	min. 3,5 kg/m ²	min. 3,0 mm	min. 2,5 mm	min. 3

CLEANING

Clean tools with water immediately after application.

PACKAGING

Product description	Item no.	Item no.
54 x 15 kg bags	12012	

The aforementioned information, especially the proposals for processing and utilizing our product, is based on our knowledge and experience. We recommend that you carry out your own tests in every case to ensure the suitability of our products for the intended process and processing purposes because of the different materials and the working conditions which lie beyond our area of influence. No liability can be derived from this advice or from verbal advice, unless we are responsible for (criminal) intent or gross negligence in this respect.

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