



# KORODUR MICROTOP<sup>®</sup>

MICROTOP<sup>®</sup> TW – the complete system for  
the repair of drinking water reservoirs  
on pure mineral basis



tested acc. to DVGW  
work sheet W 300



# MICROTOP® – the complete system for the repair of

## MICROTOP product range

<b>MICROTOP TW 3</b> (natural, white*, blue)	Microsilica-modified shotcrete mortar for dry-mix shotcreting procedure in the drinking water sector for thick coats of approx. 9-15 mm. TW 3 can also be processed manually. Granulometric composition 0-3 mm. Application combined with TW BM as bonding agent.
<b>MICROTOP TW 3 HOZ</b>	Microsilica-modified shotcrete mortar with blast furnace cement for dry-mix shotcreting in the drinking water sector for the re-profiling and coating of surfaces, for increasing the thickness of concrete covers and for the finish. Application combined with TW BM as bonding agent.
<b>MICROTOP TW 5</b>	Microsilica-modified shotcrete mortar for dry-mix shotcreting procedure in the drinking water sector for thick coats of approx. 10-25 mm. TW 5 can also be processed manually. Granulometric composition 0-5 mm. Application combined with TW BM as bonding agent.
<b>MICROTOP TW 8</b>	Microsilica-modified shotcrete concrete for dry-mix shotcreting procedure in the drinking water sector, for the re-profiling of deeper flaking. TW 8 can also be processed manually on smaller areas. Granulometric composition 0-8 mm.
<b>MICROTOP TW NSM</b> (natural, white*, blue)	Microsilica-modified shotcrete mortar for wet-mix method in the drinking water sector for thick coats in one layer of approx. 20 mm. TW NSM can also be applied manually. Granulometric composition 0-3 mm.
<b>MICROTOP TW NSD</b>	Mineral special mortar for wet-mix-pneumatic conveying-dense phase procedure in the drinking water sector, up to approx. 25 mm. TW NSD is easy to grind and to smooth. Smaller areas can be processed manually.
<b>MICROTOP TW VSM</b>	Mineral special mortar for pre-spray works in drinking water reservoirs and other water technical plants. TW VSM can be shotcreted or processed manually.
<b>MICROTOP TW BM</b> (natural or white*)	Coating mortar for the interior lining of drinking water reservoirs, pipes and other water technical plants, in an installation thickness of 3-8 mm. TW BM can be processed in wet-mix shotcreting or manually.
<b>MICROTOP TW 02</b> (natural, white*, blue)	Mineral, microsilica-modified thin coat mortar for the drinking water sector in wet-mix shotcreting procedure for an installation thickness of approx. 2-5 mm. TW 02 can be processed by shotcreting or manually.
<b>MICROTOP TW Mineral</b>	Liquid surface modification on silicate basis for the stabilization of mineral building materials on porous sub-bases – silicifying reaction (not pure white).

## MICROTOP product properties

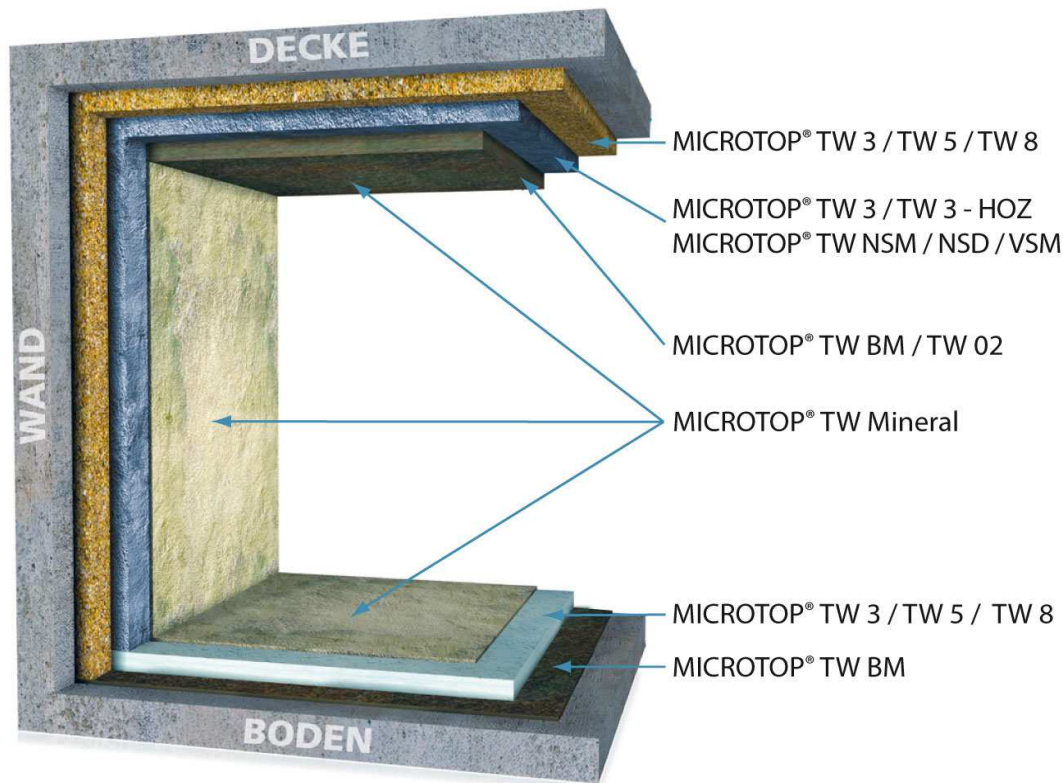
- MICROTOP TW** special mortars, combining the microsilica technique with the relevant DIN directions.
- MICROTOP TW** shotcrete mortars can be processed in wet-mix-pneumatic conveying-dense phase procedure.
- MICROTOP TW** shotcrete mortars can be processed in dry-mix or wet-mix method acc. to DIN 18551 and DIN 1045.
- MICROTOP TW** special mortars fulfill all relevant demands to coating mortars in drinking water reservoirs and provably don't contain any bioavailable substances (tested by the Hygiene-Institute Gelsenkirchen).
- MICROTOP TW** is the optimum complete system. The material system allows any type of construction. For new constructions or repairs the application can be done in thin or thick coat.

## MICROTOP technical data

	demands DVGW 300	TW 3	TW 5	TW 8	TW NSM TW NSD
total porosity after 28 d	≤ 12 Vol.%	≤ 12 Vol.%	≤ 12 Vol.%	≤ 12 Vol.%	≤ 12 Vol.%
total porosity after 90 d	≤ 10 Vol.%	≤ 10 Vol.%	≤ 10 Vol.%	≤ 10 Vol.%	≤ 10 Vol.%
water/cement ratio	≤ 0,5	≤ 0,4-0,5	≤ 0,4-0,5	≤ 0,4-0,5	≤ 0,4-0,5
air void ratio	≤ 5 Vol.%	≤ 3-5 Vol.%	≤ 3-5 Vol.%	≤ 3-5 Vol.%	≤ 3-5 Vol.%
bulk density acc. to DIN 1048 part 2		2,2-2,3 kg/dm <sup>3</sup>	2,2-2,3 kg/dm <sup>3</sup>	2,2-2,3 kg/dm <sup>3</sup>	2,2-2,3 kg/dm <sup>3</sup>
compressive strength after 28 d		≥ 45 N/mm <sup>2</sup>	≥ 45 N/mm <sup>2</sup>	≥ 45 N/mm <sup>2</sup>	≥ 45 N/mm <sup>2</sup>
bond strength	≥ 1,5 N/mm <sup>2</sup>	≥ 1,5 N/mm <sup>2</sup>	≥ 1,5 N/mm <sup>2</sup>	≥ 1,5 N/mm <sup>2</sup>	≥ 1,5 N/mm <sup>2</sup>
application thickness	15 mm ± 5 mm	9 – 15 mm	10 – 25 mm	≥ 25 mm	10 – 20 mm

# drinking water reservoirs on pure mineral basis

## MICROTOP cross section – the system for floor, wall and ceiling



## MICROTOP advantages

### For the installer:

- in dry-mix shotcreting procedure, thus larger conveying distances and higher compaction due to higher impact force
- in wet-mix shotcreting procedure (dense-phase-conveying), thus low dust development and constant water/cement ratio
- pneumatic conveying-dense-phase procedure
- optimum processing properties
- fulfills highest quality demands due to microsilica modification
- no organic additives
- low rebound due to optimum sieve curve
- the system for floor, wall, ceiling

### For the plant operator:

- fulfills highest demands to durability
- economic cleaning and maintenance due to high surface density
- shorter construction times, lower repair costs
- attractive surface optics
- one layer

## MICROTOP quality management

**MICROTOP TW** products are based on pure mineral substances. Quality management systems, computer-controlled production processes and intensive development work guarantee highest quality of our factory-produced dry mortars.

**MICROTOP TW** products fulfill the high demands to hygiene and the guide lines of the DVGW.

**MICROTOP TW** test certificates acc. to DVGW work sheets W 270 and W 347 of the Hygiene-Institute Gelsenkirchen, LGA Nürnberg and MPVA Neuwied are available.

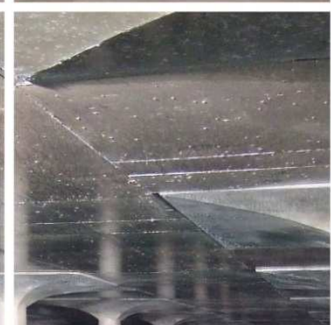
**MICROTOP TW** products fulfill the DVGW guide lines W 300, classified TYP 1 (pure mineral).

\* Despite the utmost care in the selection of raw materials and in particular in the production, unfortunately, it cannot be totally avoided that occasionally irritations in form of oversize grains and aggregates with color deviations can occur. This is due to the natural character and gives no reason for any recourse to our house.



elevated reservoir  
Haidberg 75.000 m<sup>3</sup>

elevated reservoir  
Bad Nauheim 1.500 m<sup>3</sup>



elevated reservoir  
Krottenbach 60.000 m<sup>3</sup>

elevated reservoir  
Puchheim 30.000 m<sup>3</sup>

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