KORODUR MICROTOP®

MICROTOP TW – the complete system for the repair of drinking water reservoirs on pure mineral basis

DIN DVGW CERT

tested acc. to DVGW work sheet W 300

WH KORODUR®

MICROTOP® the complete system for the repair of drinking water reservoirs

MICROTOP product range

MICROTOP TW 3 (natural, white*, blue)	Microsilica-modified shotcrete mortar for dry-mix shotcrete method in the drinking water sector, for thick coats of approx. 9-20 mm. TW 3 can also be processed manually. Granulometric composition 0-3 mm. Application combined with TW BM as bonding agent.
MICROTOP TW 3 HOZ	Microsilica-modified shotcrete mortar with blast furnace cement for dry-mix shotcrete method 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.
MICROTOP TW 5	Microsilica-modified shotcrete mortar for dry-mix shotcrete method in the drinking water sector, for thick coats of approx. 10-30 mm. TW 5 can also be processed manually. Granulometric composition 0-5 mm. Application combined with TW BM as bonding agent.
MICROTOP TW 8	Microsilica-modified shotcrete concrete for dry-mix shotcrete method in the drinking water sector, for the re-profiling of deeper flaking. On smaller areas TW 8 can also be processed manually. Granulometric composition 0-8 mm.
MICROTOP TW NSM (natural, white*, blue)	Microsilica-modified shotcrete mortar for wet-mix shotcrete method in the drinking water sector, for thick coats in one layer of up to approx. 20 mm. TW NSM can also be processed manually. Granulometric composition 0-3 mm.
MICROTOP TW NSD	Microsilica-modified shotcrete mortar for wet-mix pneumatic conveyance and dense phase procedure in the drinking water sector, up to approx. 25 mm. TW NSD is easy to grind and smooth. Smaller areas can also be processed manually.
MICROTOP TW VSM	Mineral special mortar for pre-spray works in drinking water reservoirs and other water technical plants. TW VSM can be processed by shotcreting or manually.
MICROTOP TW BM (natural or white*)	Coating mortar for the interior lining of drinking water reservoirs, pipes and other water technical plants, in an application thickness of 3-8 mm. TW BM can be processed in wet-mix shotcrete method or manually.
MICROTOP TW 02 (natural, white*, blue)	Mineral, microsilica-modified thin coat mortar for the drinking water sector in wet-mix shotcrete method, for an application thickness of approx. 2-5 mm. TW 02 can be processed by shotcreting or manually.
MICROTOP TW Mineral	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 combine the microsilica technology with the applicable DIN directives.

MICROTOP TW shotcrete mortars can be processed in wet-mix pneumatic conveyance and 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 the drinking water sector and are proven to contain no bioavailable substances (tested by the Hygiene-Institute Gelsenkirchen).

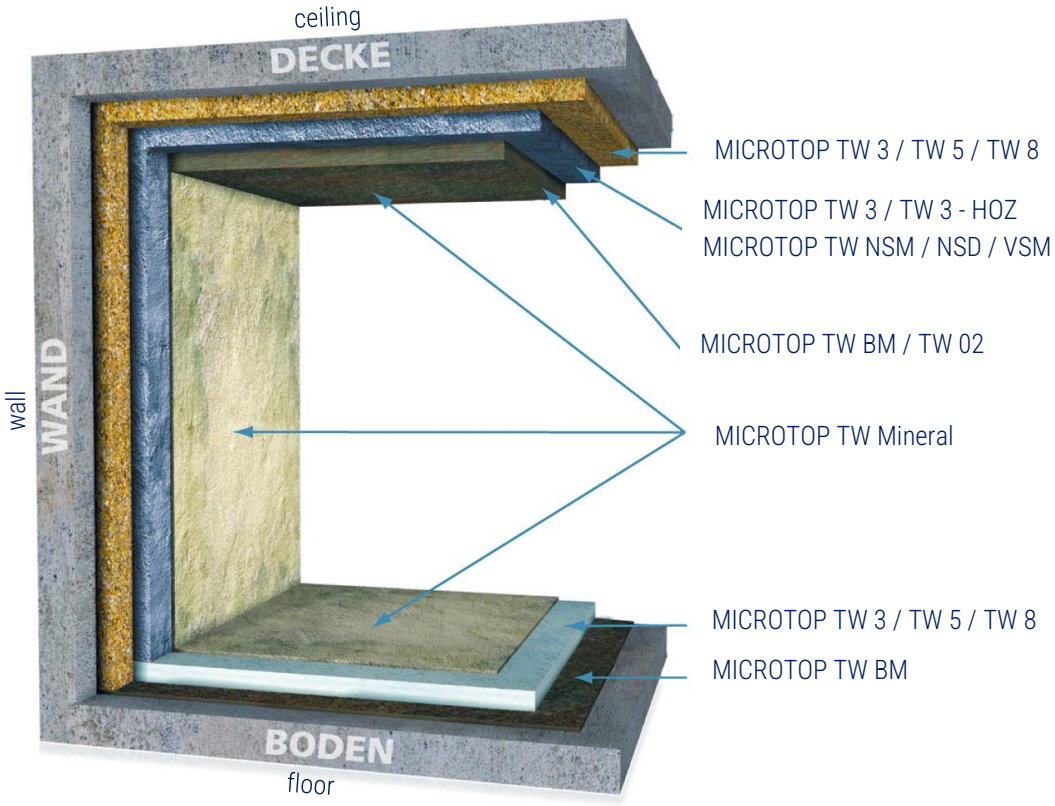
MICROTOP TW is the perfect complete system. The material system allows any type of construction. For new or existing constructions, the application/repair can be done in thin or thick coat.

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 T-2		2,2-2,3 kg/dm³	2,2-2,3 kg/dm³	2,2-2,3 kg/dm³	2,2-2,3 kg/dm³
compressive strength after 28 d		≥ 45 N/mm²	≥ 45 N/mm²	≥ 45 N/mm²	≥ 45 N/mm²
surface bond strength	≥ 1,5 N/mm²	≥ 1,5 N/mm²	≥ 1,5 N/mm²	≥ 1,5 N/mm²	≥ 1,5 N/mm²
layer thickness	15 mm ± 5 mm	9 - 20 mm	10 - 30 mm	25 mm	10 - 20 mm

MICROTOP® on pure mineral basis

MICROTOP cross section – the system for floor, wall and ceiling (in various versions)



MICROTOP benefits

for the installer

- in dry-mix shotcrete procedure, thus larger conveying distances and higher compaction due to higher impact force
- in wet-mix shotcrete procedure (dense-phase-conveyance), thus low dust development and constant water/cement ratio
- pneumatic conveyance-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 and 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

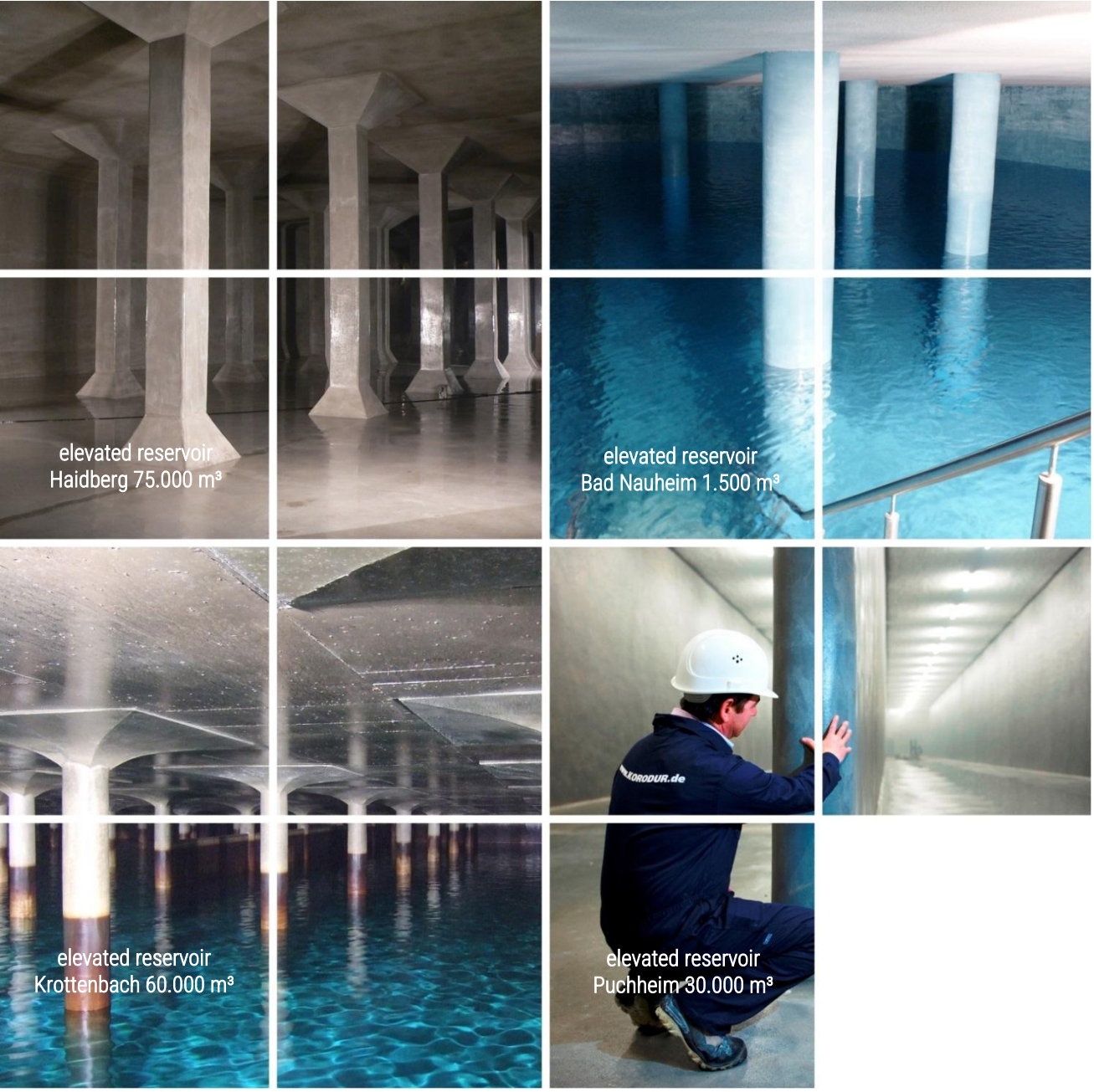
MICROTOP TW products are based on pure mineral substances. Quality management system, computer-controlled production processes and years of intensive development work guarantee highest quality of our factory-produced dry mortars.

MICROTOP TW products fulfill the high demands to hygiene and the guidelines 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 new DVGW guidelines W 300, classified TYP 1 (pure mineral).

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



HINTS: The specifications provided in this data sheet for application and processing are based on tests carried out by KORODUR under ideal conditions in the laboratory and acc. to the relevant technical regulations. Therefore, the indicated data don't represent directions for application or a quality agreement in the meaning of § 434 (1) BGB, no regulation in the meaning of § 434 (2) sentence 2 BGB (German Civil Code) and no guarantee for practical application. Due to the differing conditions on site, preliminary own tests and suitability checks are required before application. Please consider the currently valid product information as well as the relevant safety data sheet acc. to Regulation (EC) No. 1907/2006 in the latest version – also published on the internet: www.korodur.de.

Certified
quality management system
DIN EN ISO 9001:2015

KORODUR International GmbH
Wernher-von-Braun-Straße 4 · 92224 Amberg
Phone +49 (0) 9621 4759-0 · Fax +49 (0) 9621 32341
info@korodur.de

www.korodur.de

per Aug. 2022