



# MICROTOP<sup>®</sup> TW 5

## MICROSILICA-MODIFIED SHOTCRETE MORTAR FOR DRY MIX SHOTCRETING IN THE DRINKING WATER SECTOR

### DESCRIPTION

**MICROTOP TW 5** - hydraulic binding, microsilica-modified cementitious shotcrete mortar for the drinking water sector. **MICROTOP TW 5** complies with the DVGW work sheets W 270, W 300 and W 347. Granulometric composition 0 – 5 mm.

### APPLICATION

**MICROTOP TW 5** is a mortar of concrete strength class C30/37 and is used for the production of shotcrete mortar in dry mix shotcreting procedure. It is used for levelling, re-profiling and coating of surfaces, for increasing the thickness of concrete covers and for the finish in the drinking water section.

**MICROTOP TW 5** is easy to grind and smooth. Smaller jobs can be done manually.

### PROPERTIES

- microsilica-modified
- low modulus of elasticity
- for mechanical shotcreting
- open to steam diffusion
- water impermeable
- low volume of pores
- free from chloride
- can be ground and smoothed

### PROCESSING

#### Preparation:

Load-bearing concrete and firmly bonded existing plasters with a bond strength of min. 1,5 N/mm<sup>2</sup>.

#### Processing:

Clean sub-base, remove loose particles such as dust and cement slurry until a load-bearing sub-base is achieved. If necessary, roughening can be carried out. The sub-base always has to be cleaned by water jet, preferably with high pressure water  $\geq 1.000$  bar. The day before application the concrete surfaces have to be dampen until capillary saturation is achieved. The surfaces must be matt-damp when the application takes place. Application acc. to DIN 18551 in dry mix shotcreting both pre-wet or dry. The water-cement ratio of  $\leq 0,5 = 2,31$  l water / 25 kg bag must be kept. Control by weighing and drying test. The temperature on the sub-base must be min. 5 °C and must not fall below.

#### After-treatment:

By the use of air humidifiers the relative air humidity after the application must be kept at 95 % for at least 10 days. The heat input must not exceed 20 °C. Air draught and stronger air movements have to be avoided.

### PRODUCTION/ CONTROL

Producer:  
KORODUR Westphal Hartbeton  
GmbH & Co. KG, works Wattenscheid  
Control:  
internal and external control

**Certification: DIN EN ISO 9001:2008**

### PACKAGING/SUPPLY

25 kg special paper bags

### STORAGE

dry, like cement,  
shelf-life approx. 6 months

### HINTS

This product contains cement and has an alkaline reaction with moisture/water. Therefore protect skin and eyes. In case of contact with eyes consult a doctor. Our recommendations for application techniques are based on our experiences. It is recommended to adapt processing and material quantities to the given local conditions and we refer in this context to our general terms of sale and delivery. Further literature, processing hints, tender texts and test certificates on the different KORODUR industrial flooring systems, KORODUR floor hardeners, KORODUR dry mortars and special products are available on request.



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## MICROSILICA-MODIFIED SHOTCRETE MORTAR FOR DRY MIX SHOTCRETING

### TESTING HINTS AND TECHNICAL DATA

#### Test certificates: Hygiene-Institute, Gelsenkirchen

DVGW	work sheet W 270	DVGW	work sheet W 347
	<b>W-128478-05-SI</b>		<b>C-121563-04-Ko</b>

#### Test certificates acc. to DVGW Work Sheet W 300: LGA, Nürnberg

Air space ratio	BBBW1 0450077
Compressive strength	BBBW1 0450077
Flexural strength	BBBW1 0450077
Dynamic modulus of elasticity	BBBW1 0450077
Water penetration depth	BBBW1 0450077

<b>MPVA Neuwied</b>	Mercury pressure porosimetry 28 d+90	50/1228/04
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#### Technical Data

Density	2,25 kg/l
Granulometric composition	0 - 5 mm
Strength class	C30/37
Water-cement ratio	≤ 0,5
Application thickness	approx. 15 - 30 mm
Processing temperature	≥ 5 °C

### HINTS

The afore-mentioned data, in particular the suggestions for the processing and use of our products are based on our knowledge and experience in normal case. Taking into consideration the differences and deviations in materials, sub-bases and working conditions, a guarantee for working results cannot be given nor any reliability, regardless the legal relationship, whether referred to these hints nor to given verbal advice, unless we are charged of having acted on purpose or gross negligence. In such case the applicator has to furnish evidence that he had forwarded to us in good time, completely and in written form any information required for proper and promising judgement. Protective rights of third parties have to be observed. In any case the latest technical data sheet refers which is available on request.

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**KORODUR International GmbH**

**Head Office:**  
Wernher-von-Braun-Str. 4  
92224 Amberg  
P.O. Box 1653 • 92206 Amberg  
Phone: +49 (0) 96 21 / 47 59 - 0  
Telefax: +49 (0) 96 21 / 3 23 41  
info@korodur.de

[www.korodur.de](http://www.korodur.de)

**Bochum-Wattenscheid Works:**  
Hohensteinstr. 19  
44866 Bochum  
P.O. Box 60 02 48 • 44842 Bochum  
Phone: +49 (0) 23 27 / 94 57 - 0  
Telefax: +49 (0) 23 27 / 32 10 84  
wattenscheid@korodur.de

