



## MICROTOP TW 3 / TW 5 / TW 8

Status 01/2021

**mineral, microsilica-modified shotcrete mortar/concrete  
for dry-mix shotcrete method in the drinking water section**

### DESCRIPTION

MICROTOP TW 3 / TW 5 / TW 8 are hydraulic setting, microsilica-modified shotcrete mortars/concretes for dry-mix shotcrete method (thin stream conveyance) in the drinking water section. They meet the DVGW work sheets, type class 1, W 300 and W 347.

- MICROTOP TW 3: microsilica-shotcrete mortar      grain size 0 - 3 mm
- MICROTOP TW 5: microsilica-shotcrete mortar      grain size 0 - 5 mm
- MICROTOP TW 8: microsilica-shotcrete concrete    grain size 0 - 8 mm

### APPLICATION

For the production of shotcrete mortar/concrete for dry-mix shotcrete method, for re-profiling and coating of surfaces, for increasing of concrete covers and for the finish in the drinking water section. The materials are processed in one layer and are easy to grind and smooth. Smaller areas can be processed manually.

### PROPERTIES

- microsilica-modified
- low modulus of elasticity
- low pore volume
- open to steam diffusion
- water impermeable
- chloride-free
- can be smoothed and trowelled
- can be machine sprayed

### TECHNICAL DATA

|  |   |   |
|--|---|---|
| <b>Quality</b>   | all qualities                                   | C30/37  |
| <b>Grain size</b>  | MICROTOP TW 3<br>MICROTOP TW 5<br>MICROTOP TW 8 | 0 - 3 mm<br>0 - 5 mm<br>0 - 8 mm  |
| <b>Colour</b>  | MICROTOP TW 3<br>MICROTOP TW 5<br>MICROTOP TW 8 | natural, white<br>natural<br>natural  |
| <b>Density</b>   | MICROTOP TW 3<br>MICROTOP TW 5<br>MICROTOP TW 8 | approx. 2,24 kg/l<br>approx. 2,25 kg/l<br>approx. 2,27 kg/l                   |
| <b>Temperature</b><br>processing, ambient and sub-base temperature | all qualities                                   | ≥ 5 °C  |
| <b>Water / cement ratio</b>  | all qualities                                   | ≤ 0,5   |
| <b>Water addition</b>  | MICROTOP TW 3<br>MICROTOP TW 5<br>MICROTOP TW 8 | approx. 2,5 l/25 kg bag<br>approx. 2,3 l/25 kg bag<br>approx. 2,2 l/25 kg bag |
| <b>Single layer thickness</b>                                      | MICROTOP TW 3<br>MICROTOP TW 5<br>MICROTOP TW 8 | approx. 9 - 20 mm<br>approx. 14 - 40 mm<br>≥ 25 mm                            |
| <b>DVGW work sheet</b><br>type class 1, W 300, W 347               | all qualities                                   | <input checked="" type="checkbox"/>   |

### PROCESSING

#### Sub-base

The base concrete/old plaster (surface bond strength minimum  $\geq 1,5 \text{ N/mm}^2$ ) must be blasted, preferably with high pressure water  $\geq 1.000 \text{ bar}$ . For full bond, the surface must be free of cracks, flat, free from loose and brittle debris and fine mortar laitance. It must be rough and open-pore. Thorough pre-wetting of the sub-base one day prior to the application.



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### Processing

Application on the matt-damp surface acc. to DIN 18551 by thin stream conveyance both pre-wet or dry. The water/cement ratio of  $\leq 0,5$  must be maintained. Check by weighing and drying test.

### AFTER-TREATMENT

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Ensure air conditioning of the water chambers to prevent the formation of condensation water until the applied material has gained sufficient mechanical strength. By the use of humidifiers, the relative humidity must be kept at 95 % for at least 10 days after application. The heat input must not exceed 20 °C. Avoid drafts and strong air movements.

### SUPPLY

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25 kg special paper packaging

### STORAGE

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Dry, like cement. Shelf-life approx. 12 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. 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](http://www.korodur.de).



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