



# D - TOX

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**Customer: TOTO Europe GmbH**  
Address: Zollhof 2, D-40221 Düsseldorf  
Date of receipt: 03.09.2013  
Date of test: 14.10.2013  
Test material: Hydrotect for Exterior  
Sampling: Customer  
Test methods:  
Water contact angle ISO 27748  
Methylene blue degradation ISO 10678  
NO degradation ISO 22197-1

## Test results

### Test method:

Water contact angle according to ISO 27748

Methylene blue degradation according to ISO 10678  
Testing Cell, sample size: 4 cm<sup>2</sup> ceramic tile,  
Illumination: 3 hours with 1mW/cm<sup>2</sup> Blacklight-Blue

NO degradation according to ISO 22197-1  
sample size: 50 cm<sup>2</sup> ceramic tile  
Illumination: 1mW/cm<sup>2</sup> UV-A

### Result:

final contact angle: 5.8° after 24 hours UV-A  
illumination (2mW//cm<sup>2</sup>)  
standard deviation s: 0.26  
s/x coefficient of variation: 4.5%

Photonic Efficiency  $\zeta$  : 0.058%

amount of degraded NO: 1.52  $\mu$ mol (in 5 hours  
illumination time)  
amount of degraded NO<sub>x</sub>: 0.040  $\mu$ mol (in 5 hours  
illumination time)

## Final Remarks

The ceramic sample "Hydrotect for Exterior" exhibits a very good photocatalytic activity in all three standard test methods.

Analytical Laboratory

D-TOX, 07.11.2013

  
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