

# Protectosil® for Fiber Cement Boards



Protectosil® products render your fiber cement boards resistant against water, making them long lasting. Our Protectosil® brand offers several tailor-made solutions for your fiber cement boards, making them more resistant and durable while keeping them optically unchanged.

**Evonik Silanes – Performance beyond expectations**

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Protectosil®

## Basic product recommendation

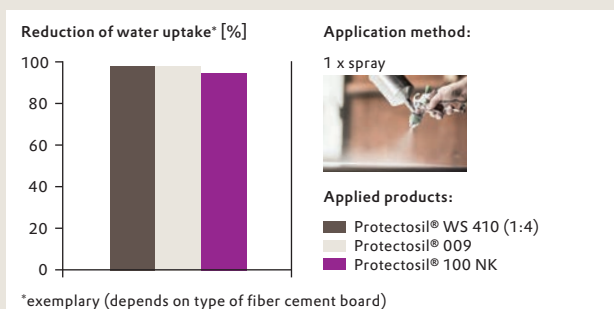
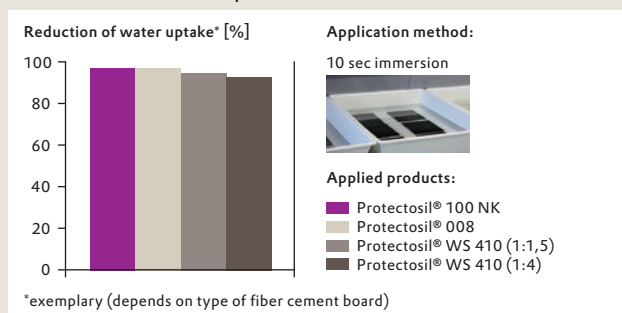
	Protectosil® grade	Effect			Processability	
		Reduction of water uptake	Prevention of discoloration	Beading effect	Solvent for dilution	Recommended dilution rate
Pure silane systems	008	✓			Organic solvent	Pure – 1:9
	009	✓		✓	Organic solvent	Pure – 1:9
	100 NK	✓		✓	Organic solvent	Pure – 1:9
Water based	WS 340	✓			Water	1:1 – 1:3
	WS 410	✓			Water	1:1.5 – 1:4
	WS 602	✓			Water	1:1 – 1:4
	WS 610	✓		✓	Water	1:1.5 – 1:4
	WS 670	✓			Water	1:1.5 – 1:4
	SC CONCENTRATE		✓	✓	Water	Pure – 1:10

## Key benefits

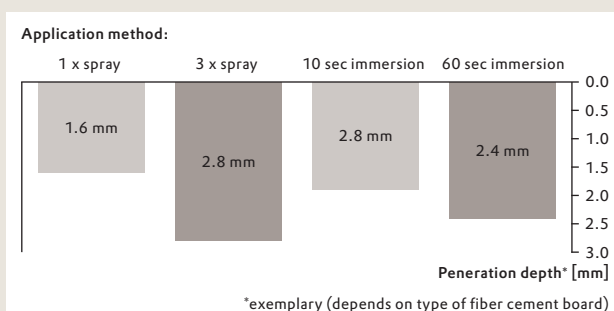
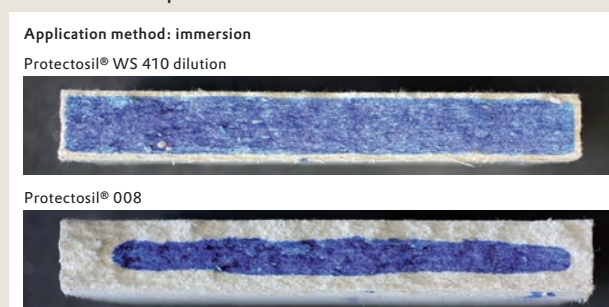
- Excellent reduction of water uptake
- Variable penetration depth from few millimeters to full penetration depending on board type, product choice and application rate
- Effective protection against efflorescence
- Prevention of discoloration

## Performance data

### Reduction of water uptake



### Penetration depth



Pictures above show treated test samples that were split with a hammer and chisel.

A water-based ink was then applied onto the fractured surface to visualize the penetration depth.

The inner part of the fiber cement boards where the concentration of the water repellent was not high enough to repel the water became colored, while the outer part near the substrate's surface did not absorb the colored water.

**Evonik Operations GmbH**  
Silanes Business Line  
Rodenbacher Chaussee 4  
63457 Hanau-Wolfgang/Germany

protectosil@evonik.com

www.protectosil.com/en



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