

Protectosil®

Modular 2K waterproofing system providing a long lasting beading effect



Our modular 2K system is a tailor made combination of two water-based systems with unique chemical compositions. It does not only offer excellent water repellency and an outstanding long-lasting beading effect – with this customizable solution, it also offers high flexibility regarding treatable substrate types or performance requirements.

Evonik Silanes – Performance beyond expectations

 **Protectosil®**

Stepwise configuration of 2K system according to individual requirements

Step 1: Choose emulsion according to substrate to be treated

Protectosil® emulsion for 2K formulation	Concrete	Brick	Sand-limestone	Roof tiles (natural)	Roof tiles (engobed)	Fiber cement boards
Protectosil® WS 410	✓		✓			✓
Protectosil® WS 340	✓		✓	✓	✓	✓
Protectosil® WS 670	✓	✓	✓	✓		✓
Protectosil® WS 602		✓	✓	✓	✓	

Step 2: Choose dilution rate of selected emulsion and prepare first component

Protectosil® emulsion for 2K formulation	Concrete	Brick	Sand-limestone	Roof tiles (natural)	Roof tiles (engobed)	Fiber cement boards
recommended consumption rate of the final 2K formulation (dilution rate of emulsion in water)						
Protectosil® WS 410	150 g/m ² (1:1.5)		250 g/m ² (1:1.5)			40-90 g/m ² (1:4)
Protectosil® WS 340	180 g/m ² (1:1)		220 g/m ² (1:3)	90 g/m ² (1:3)	50 g/m ² (1:1)	40-90 g/m ² (1:3)
Protectosil® WS 670	200 g/m ² (1:1)	250 g/m ² (1:3)	250 g/m ² (1:3)	90 g/m ² (1:3)		40-90 g/m ² (1:3)
Protectosil® WS 602		250 g/m ² (1:4)	250 g/m ² (1:4)	90 g/m ² (1:4)	30 g/m ² (1:4)	40-90 g/m ² (1:4)

Step 3: Use 10 parts of the diluted emulsion and add 1 part Dynasylan® F 8815

Step 4: Use formulation within 48 hours after preparation

Example: (1) Brick has to be treated with Protectosil® WS 602. (2) Protectosil® emulsion is diluted 1:4. (3) 10 l Protectosil® WS 602 (1:4 in water) are mixed with 1 l Dynasylan® F 8815 (4) Resulting 11l of formulation allow for treatment of approx. 44 m² of brick.

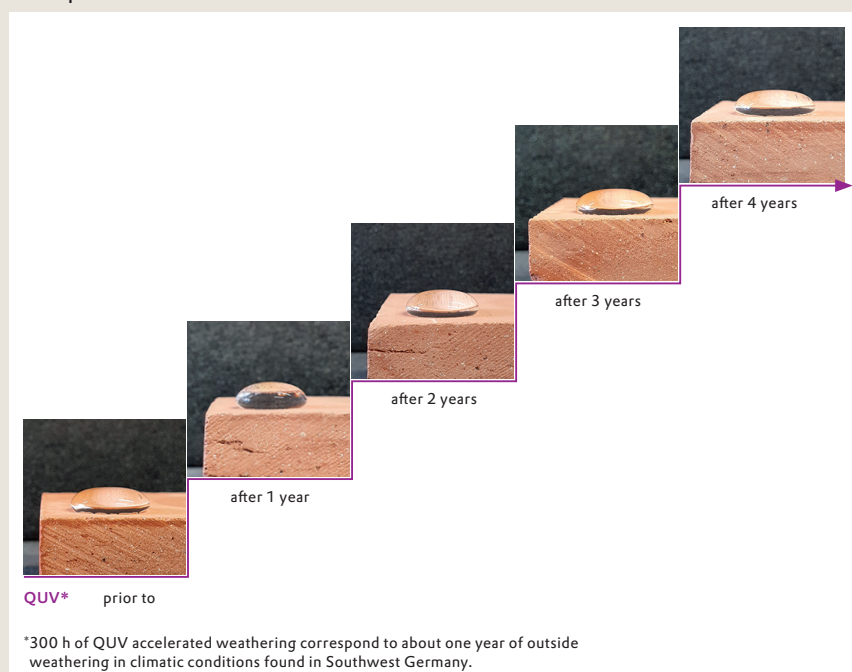
 **EVONIK**
Leading Beyond Chemistry

Key benefits

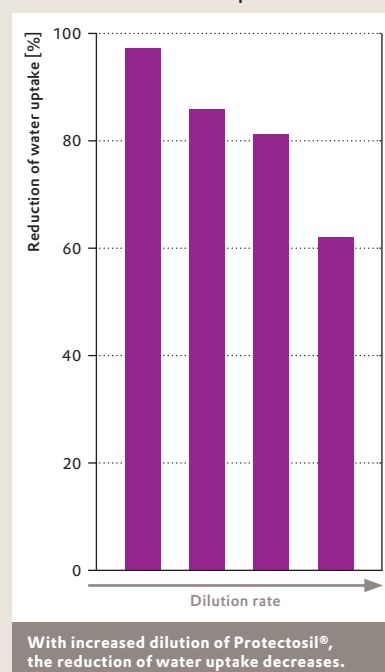
- Modular system offering excellent water repellency and outstanding water beading for at least five years
- Hydrophobizing agent (emulsion) significantly reduces water uptake and can be chosen according to substrate to be treated
- Dilution rate of emulsion adjustable to substrate and performance requirements
- Water-based system
- Colorless and water vapor permeable protection

Performance data

Example: brick stone



Reduction of water uptake



QUV tests using an artificial weathering device in accordance to EN ISO 11507 were performed to evaluate the longterm performance of the Protectosil® products. For weather conditions similar to those in southwestern Germany, the correlation between natural and artificial weathering is about 1 year to 300 hours.

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