

Protectosil® for Formulators



Protectosil® products are high quality raw materials for your formulation and provide hydrophobic, easy-to-clean or substrate strengthening properties. They come in different forms, such as water-based emulsions/systems or pure silane systems.

Evonik Silanes – Performance beyond expectations

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Protectosil®

Basic product recommendation

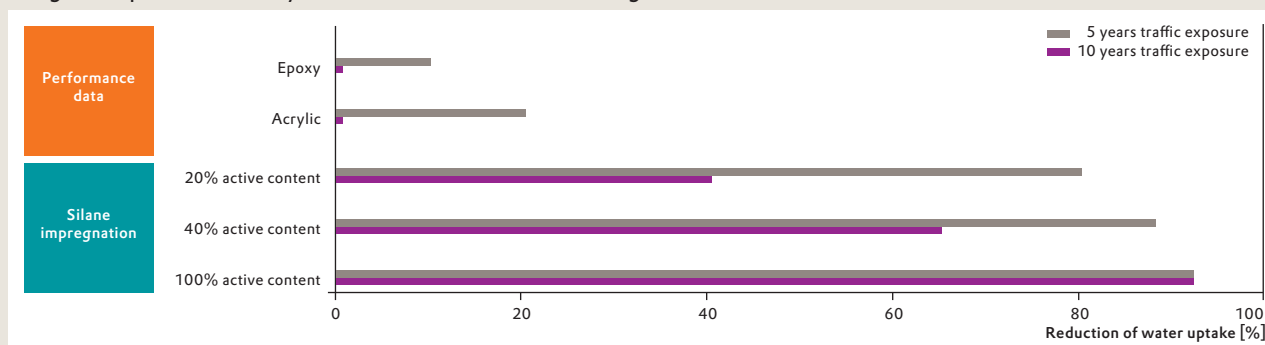
	Protectosil® grade	Chemical structure			Effect			Substrate		Formulation		
		Monomer	Oligomer	Siliconate	Hydrophobation		Easy-to-clean/ Oleo-phobation	Type of substrate		Type of formulation		Active ingredient
					w/o beading effect	w/ beading effect		Dense	Porous	Water	Solvent	
Pure silane systems	100 N	✓			✓			✓			✓	100%
	100 NK	✓				✓		✓			✓	100%
	200	✓			✓			✓	✓		✓	100%
	266		✓		✓				✓		✓	100%
	60 SK		✓			✓			✓		✓	100%
	800	✓			✓			✓			✓	100%
Water based	WS 808			✓		✓			✓	✓		55%
	SC CONCENTRATE		✓				✓	✓	✓	✓		Concentrate
Water based emulsions	WS 340	✓	✓		✓			✓	✓	✓		40%
	WS 602		✓		✓				✓	✓		50%
	WS 610		✓			✓			✓	✓		50%
	WS 670	✓	✓		✓			✓	✓	✓		40%

Key benefits

- Simple formulation guidelines
- Strong chemical bonding leading to long lasting and UV-stable protection
- Deep penetration leading to abrasion resistance
- Preservation of water vapor permeability
- No changes in the appearance of the substrate
- No impact on the adhesion of subsequent coatings

Performance data

Long-term performance by silane active content vs. coating



The above diagram shows the reduction in water uptake of a bridge deck's concrete after five and ten years of constant traffic exposure. The higher the active ingredient content of Protectosil® used in the application, the higher the reduction of water uptake and the more durable the protection.

Individual guide formulation available on request.



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