



# Bluesil™ water repellents for durable masonry protection

Bluestar Silicones. Delivering Your Potential.

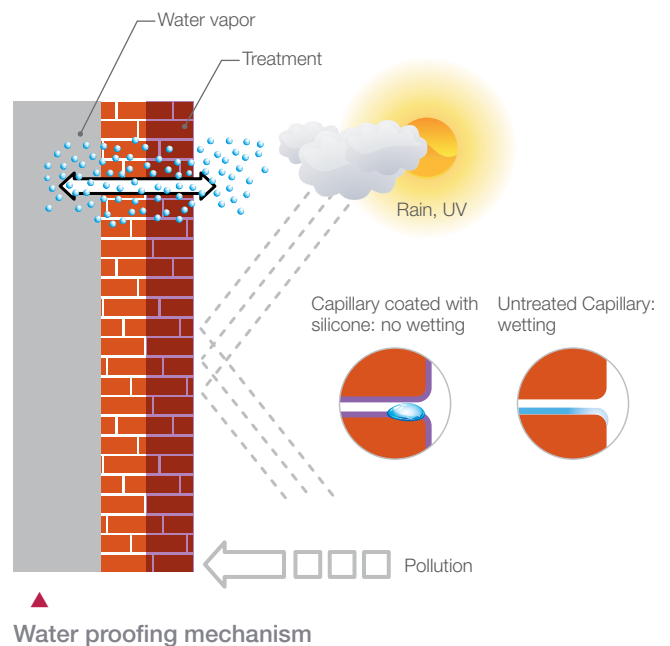
**BLUESTAR**  
SILICONES

# Invisible but long lasting protection

Over the years, buildings suffer physical and chemical damages caused by water penetrating into building materials.

The main technical solution for masonry protection therefore involves creating a water-proof barrier while maintaining the surface's breathability and porosity.

This is achieved by impregnating diluted Bluesil™ silicone solutions into the materials: the silicone forms a monomolecular layer inside the capillaries that makes the pore surface water-proof without closing them completely, and thus with no modification of the initial aspect of the material.



## Bluesil™ water repellent: an ideal solution for a wide range of applications

- Prevent water absorption
- Beading effect
- Outstanding resistance to ageing agents (freeze, thaw, UV...)
- High durability
- Very good resistance to acid rains
- Optimized thermal insulation
- Maintenance cost saving
- Preserved initial characteristics of the wall: aesthetics, breathability, ...
- High protection against efflorescence, algae, fungi development



# Bluesil™ water repellent range

Bluesil™	Water repellents			Stone strengthener*		
	WR224	BP 9400	BP 9710	RC70	RC80	RC90
<b>Family</b>						
Associated ethyl silicate				●	●	●
Siloxanes	●	●			●	
Siloxanes emulsions			●			
<b>Properties</b>						
Actives ingredients (%)	69	100	44	70	68	70
Thinner	solvent	solvent	water	solvent	solvent	solvent
Appearance	clear yellowish	clear yellowish	milky white	clear	clear	clear
Shelf life (month)	18	18	12	12	12	12
<b>Applications</b>						
<b>Water repellent for</b>						
Concrete	■ ■	■ ■	■ ■			
Clay bricks	■ ■ ■	■ ■ ■	■ ■ ■		■ ■	
Limestones	■ ■ ■	■ ■ ■	■ ■ ■		■ ■	
Sandstones	■ ■ ■	■ ■ ■	■ ■ ■		■ ■	
Marble	■	■			■ ■	
Granite	■ ■	■ ■	■		■ ■	
Mineral plasters	■ ■ ■	■ ■ ■	■ ■ ■		■ ■	
Siliceous bricks	■ ■ ■	■ ■ ■	■ ■ ■		■ ■	
Wood	■ ■	■ ■	■ ■		■ ■	
<b>Rising damp</b>	■ ■ ■	■ ■ ■				
<b>Consolidation</b>				■ ■ ■	■ ■ ■	■ ■ ■
<b>Primers</b>	■ ■ ■	■ ■ ■	■ ■ ■			

■ Possible ■ ■ Suitable ■ ■ ■ Ideal

\* Our stone strengtheners will be used to restore the porosity and strength of damaged building materials. They can be used as supplied, or diluted into solvent, on a wide range of substrates.



## Bluesil™ range easy to use

Products in the Bluesil™ range have the advantage to be used diluted before application. Normally we recommend an active ingredient content of between 5 and 8%. Thus, the dilution ratio varies between one part of water repellent for 4.5 to 20 parts of diluent, whether water or solvent according to the water repellent used.

Once diluted, the solution is stable for at least one year.

The diluted solution can easily be applied by dipping, with a brush or by spraying.

The water repellent performance of the treated materials depends on the quantity applied to the surface. It will only be optimal if a sufficient quantity of Bluesil™ water repellent is applied. The dilution concentration must take account of the absorption capacity of the material and its porosity.

Average consumptions frequently observed on different type of substrates:

Substrate	Total porosity %	Solution l/m <sup>2</sup>
Mortar	12	0.3 – 0.6
Porous limestone	40	1.5 – 2.2
Low porosity stone	14	0.2 – 0.5
Brick	30	0.6 – 0.9

Our experts and our distribution network are at your disposal to provide any advice you may need.



## Bluesil™ range, for a sustainable and certified protection

### WR 224

CSTC	June 1986	HD-340/133-28
CEBTP	May 1988	n° 2122.6.050
CEBTP (French National Building Industry Centre)	May 1998	n° 98/B182.6.305

### BP 9400

CSTC (Scientific and Technical Centre of Construction - Belgium)	Feb 2006	HD-340/133-150
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### BP 9710

CSTC	Feb 2006	HD-340/133-151 bis
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[www.bluestarsilicones.com](http://www.bluestarsilicones.com)

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