

Improved

A

Aesthetics

SILRES® BS

FOR ANTI-STAIN,
COLOR ENHANCING AND
ANTI GRAFFITI
SURFACE TREATMENT

THE ELEMENTS
OF SUCCESS

Stone

Pr

protection

Easy-to-clean

Ef

effects

SILRES®

SILRES® BS – PRESERVING
AND ENHANCING NATURAL
BEAUTY

SILRES® BS – SURFACE PROTECTION AGAINST STAINING & GRAFFITI

Natural and artificial stone have a special appeal as construction materials due to their unique visual and tactile quality. But, at the same time, they are especially susceptible to staining or weathering. If untreated, the material absorbs water, oil or other liquids within a short time, causing irreversible stains or other damage. This can be prevented by treating the surfaces with SILRES® BS.

Highly Durable Protection
Exploiting capillary action to penetrate into the pores, SILRES® BS is deposited on the pore walls. These siliconized pores inhibit any further capillary effect without impairing water-vapor permeability. Silicone resin coatings are also extremely durable even if they remain partly on the surface but react chemically with the substrate and are not easily washed or wiped off.


Permanent Protection for Many Surfaces

Effects

- Low water, oil and dirt uptake
- Easy-to-clean effect
- High water-vapor permeability
- Surface enhancement possible
- Easy graffiti removal

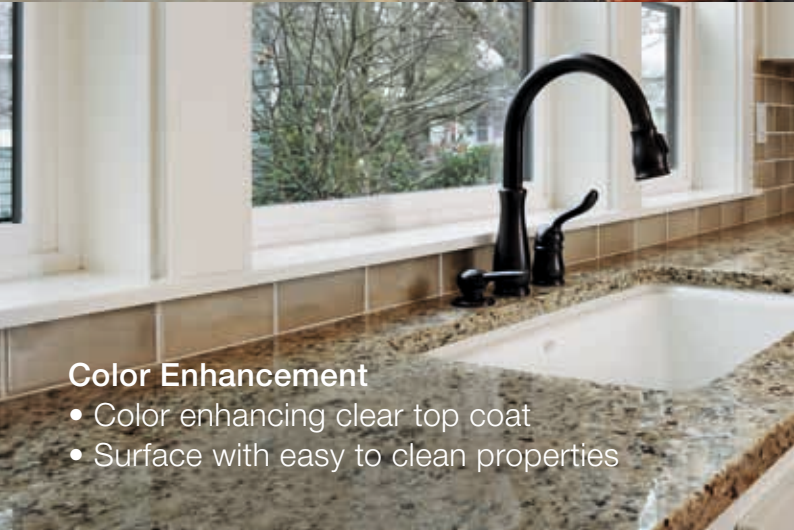
Substrates

- Low to high porous natural stones, e.g. marble, travertine and granite
- Brick/Klinker
- Ceramic tiles




Anti-stain – Easy to clean

- Clear top coat with easy-to-clean properties
- No change of surface appearance



Color Enhancement

- Color enhancing clear top coat
- Surface with easy to clean properties



Anti-graffiti

- Clear top coat for permanent protection

ANTI-STAIN, EASY-TO-CLEAN STAINS HAPPEN – BUT PREVENTION IS SIMPLE

SILRES® BS provides easy-to-clean protection against water, oil or dirt without changing the surface appearance. In contrast to treatment with film-forming coatings, it does not affect vapor permeability. The substrate stays “breathable” and keeps its natural touch.

For easy-to-clean protective coatings that leave the surface unchanged, we offer two proven solutions: SILRES® BS 38 – a solvent-based yet tin-free mixture – and SILRES® BS 39 – a water-based formulation.

Benefits

- High oil, soil and water repellency
- Highly durable effectiveness
- Maintains natural look
- No tacky finish
- No surface sealing

Application Areas

High and low porous mineral surfaces on:

- Table tops
- Window sills
- Kitchen worktops
- Interior walls
- Floors
- Facades

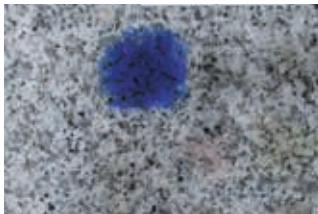
Oil and Water Repellents		
Product	SILRES® BS 38	SILRES® BS 39
Product class	Solvent-based mixture of silane, siloxane and fluorine compounds	Water-based mixture of silane, siloxane and fluorine compounds
Active content (%w/w)	46	25
Application	Natural or synthetic stone: cotto, marble, travertine and granite	Natural or synthetic stone: cotto, marble, travertine and granite
Dilution	1:6 – 1:10	1:3 – 1:6



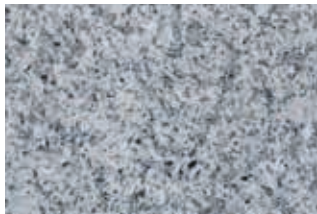
Treatment with SILRES®

Repels stains such as ketchup, mustard, oil, soy sauce and wine.
(Cleaning after 24 h)

SILRES® BS 38 on Granite



Untreated

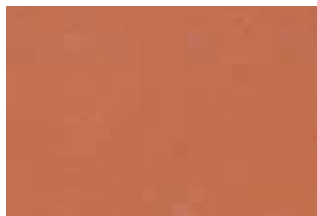


Treated

SILRES® BS 39 on Cotto



Untreated



Treated

COLOR ENHANCEMENT

THE TWO-IN-ONE SOLUTION FOR LASTING BEAUTY

SILRES® BS can be more than just a protective coating: it can even enhance surfaces. The natural surface colors come out brighter and deeper, with gloss or matt effects.

For additional surface-enhancing effects, we recommend SILRES® BS 30, a 100% silane/siloxane mixture.

Benefits

- Improved visual appearance
- Improved stain resistance
- Water, oil, dirt repellency
- Gloss or matte effect achievable
- Wet-look effect possible
- Recoatable
- Tin free
- Low VOC

How to apply

Can be applied with roller, sponge, brush or pump-style sprayer.

Application Areas

High- and low-porosity mineral substrates, e.g. cotto, slate, granite or marble, which are used for:

- Floors
- Table tops
- Window sills
- Kitchen plates

Examples of surface-enhancing effect with SILRES® BS 30. Left: treated granite, right: untreated granite.





Example of different surface effects.
From left to right:
untreated, matt finish, glossy finish.



ANTI-GRAFFITI

PERMANENT PROTECTION AGAINST UNDESIRE D COATINGS

Unwanted street-art can be annoying and expensive to remove. Treating facades with SILRES® BS makes it easy to wash off graffiti using just water.

SILRES® BS 710 is a clear, one-component, moisture-cured, silicone-elastomer concentrate that can be applied by brush, roller or professional spray equipment. Once applied, SILRES® BS 710 forms a permanent coating that allows removal of graffiti by cold-water cleaning. No additional cleaning agents are needed. Smaller graffiti can easily be removed using a wet sponge. In contrast to established sacrificial anti-graffiti systems, SILRES® BS 710 does not have to be re-applied after graffiti removal. It is permanent.

How to apply

Can be applied with standard equipment such as a roller, sponge, brush or pump-style sprayer.

Benefits

- Permanent protection
- Easy graffiti removal
- UV resistant
- Poster release
- Breathable film
- Pigmentable

Application Areas

Substrates such as:

- Concrete
- Masonry
- All kinds of natural stone
- Wood
- Coated Metal



Left: different substrates treated with SILRES® BS 710, sprayed with typical graffiti paint (upper row) and then cleaned with water (lower row). Right: Graffiti can be removed just with pressurized water.





SILRES® BS – THE ELEMENTS OF SUCCESS FOR YOUR BUSINESS

Protection with silicone-based products is among the most effective and successful worldwide. We invite you to explore the possibilities this chemistry offers for you.

Partner with the Pioneer

When choosing our portfolio you also profit from unique experience and expertise. The first silicone resins for building protection originated from WACKER laboratories. Today, we provide you with a comprehensive, time-tested and innovative portfolio that includes tailored solutions for many applications, climates and substrates.

Profit from Individual Service

Partnership is important to us. That is why we offer personal and comprehensive service from experienced technical service engineers and a close net of technical centers worldwide.

For example, we offer advice on product selection, help you optimize a formulation, test your products or use our experience to assist you with application-related topics. Our dedicated experts and our well equipped labs are at your disposal.

Just talk to us!

EXPERTISE AND SERVICE NETWORK ON FIVE CONTINENTS

WACKER is one of the world's leading and most research-intensive chemical companies, with total sales of €5.3 billion. Products range from silicones, binders and polymer additives for diverse industrial sectors to bioengineered pharmaceutical actives and hyperpure silicon for semiconductor and solar applications. As a technology leader focusing on sustainability, WACKER promotes products and ideas that offer a high value-added potential to ensure that current and future generations enjoy a better quality of life based on energy efficiency and protection of the climate and environment.

Spanning the globe with 5 business divisions, we offer our customers highly-specialized products and comprehensive service via 25 production sites, 22 technical competence centers, 12 WACKER ACADEMY training centers and 50 sales offices in Europe, North and South America, and Asia – including a presence in China.

With a workforce of some 17,000, we see ourselves as a reliable innovation partner that develops trailblazing solutions for, and in collaboration with, our customers. We also help them boost their own success. Our technical centers employ local specialists who assist customers worldwide in the development of products tailored to regional demands, supporting them during every stage of their complex production processes, if required. WACKER e-solutions are online services provided via our customer portal and as integrated process solutions. Our customers and business partners thus benefit from comprehensive information and reliable service to enable projects and orders to be handled fast, reliably and highly efficiently. Visit us anywhere, anytime around the world at: **www.wacker.com**



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