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

<table>
<thead>
<tr>
<th>Effects</th>
<th>Substrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Low water, oil and dirt uptake</td>
<td>• Low to high porous natural stones, e. g. marble, travertine and granite</td>
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<tr>
<td>• Easy-to-clean effect</td>
<td>• Brick/Klinker</td>
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<tr>
<td>• High water-vapor permeability</td>
<td>• Ceramic tiles</td>
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<tr>
<td>• Surface enhancement possible</td>
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<tr>
<td>• Easy graffiti removal</td>
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</table>
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

<table>
<thead>
<tr>
<th>Product</th>
<th>SILRES® BS 38</th>
<th>SILRES® BS 39</th>
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<tbody>
<tr>
<td>Product class</td>
<td>Solvent-based mixture of silane, siloxane and fluorine compounds</td>
<td>Water-based mixture of silane, siloxane and fluorine compounds</td>
</tr>
<tr>
<td>Active content (%w/w)</td>
<td>46</td>
<td>25</td>
</tr>
<tr>
<td>Application</td>
<td>Natural or synthetic stone: cotto, marble, travertine and granite</td>
<td>Natural or synthetic stone: cotto, marble, travertine and granite</td>
</tr>
<tr>
<td>Dilution</td>
<td>1:6 – 1:10</td>
<td>1:3 – 1:6</td>
</tr>
</tbody>
</table>
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 UNDESIRED 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.
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When choosing our portfolio you also profiting 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.

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Just talk to us!
EXPERTISE AND SERVICE NETWORK ON FIVE CONTINENTS

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All figures are based on fiscal 2015.
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