

SILRES® BS 30 – AN INNOVATIVE BINDER FOR COLOR-ENHANCING SURFACE PROTECTION

Natural and artificial stone have a special appeal as construction materials due to their unique visual and tactile qualities. But, at the same time, they are especially susceptible to staining and weathering. Therefore, they need durable protection to permanently maintain their beauty.

SILRES® BS 30 is the two-in-one solution for lasting beauty: it intensifies the natural colors of the substrate surfaces, while maintaining their natural feel. Colors come out brighter and deeper, with gloss or matt effects. At the same time, SILRES® BS 30 protects surfaces from water and oil-based stains, leaving them visibly improved.

Highly Durable Protection

SILRES® BS 30 is a solventless silicone concentrate, based on a mixture of silane and siloxane. Exploiting capillary action to penetrate into the pores, SILRES® BS 30 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.

Benefits of Coatings Based on SILRES® BS 30

- Color enhancement
- Retention of stone surface's natural touch
- Improved stain resistance
- Water, oil and dirt repellency
- Gloss or matt effect achievable
- No visual layer on coated surface
- Substrate stays breathable
- Free from tin compounds
- UV resistant, for use indoors or outdoors
- Low VOC
- Very low material consumption with outstanding protection

Application Method

SILRES® BS 30 can be applied with a cloth, sponge, brush or spray. Depending on the porosity of the surface, one or several layers are applied, usually in undiluted form.



Example of a color-enhancing coating – left: untreated, right: treated.

Application Areas

SILRES® BS 30 is ideal for absorbent and dense mineral-based interior or exterior substrates, e.g. terracotta, slate, granite or marble, which are used for:

- Floors
- Table tops
- Kitchen counter tops
- Facades
- Terraces, etc.

Protection of new and renovation of all kind of mineral substrates is possible.



Terracotta or Fired Clay as an Example of a Porous or Absorbent Substrate (Application Test in Our Lab)

				Evaluation of Performance	
Treatment with brush	15 min later: removal of excess	Next day: application of common household stains	24 h later: removal of stains	Untreated with staining	Treated without staining, improved aesthetics
					

Application details for porous substrates: for a matt effect, use one or several coats and remove excess after each coating step; for a glossy surface, remove excess after first coat and leave excess after the final coat.

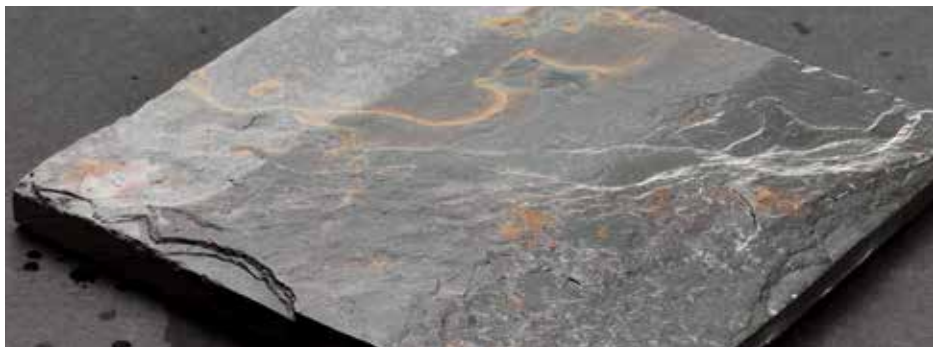
Polished Marble Represents Low-Porosity or Dense Substrates (Application Test in Our Lab)

				Evaluation of Performance	
Treatment with brush	45 min later: removal of excess	Next day: application of common household stains	24 h later: removal of stains	Untreated with staining	Treated without staining, improved aesthetics
					

Application details for dense substrates: one layer is sufficient; after a maximum of 45 minutes, remove the excess by polishing the surface.

Conclusion

SILRES® BS 30 acts as a penetrating sealer with no visual layer on the coated surface when less than 50 g/m² is used for low-absorption substrates. The substrate stays breathable (sd values < 0.1 m = Class I according to EN 1062-1).



Example of different surface effects – from left to right: untreated, matt finish and glossy finish.

Wacker Chemie AG, 81737 Munich, Germany, Phone: +49 89 6279-1741
 info@wacker.com, www.wacker.com/silres, www.wacker.com/socialmedia



The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.