Energy efficiency is on the world’s agenda. Bricks and other heavy clay ceramics need to be fired at high temperatures to reduce the amount of water they take up, and render them frost-resistant. Methods for manufacturing bricks at a lower firing temperature to save energy result in a more open-pored structure. This causes greater water absorption, which can be offset with SILRES® BS 16.

Furthermore, thermal insulation, an issue closely associated with energy efficiency, can only be satisfactorily achieved by applying a water-repellent, impregnating agent. After all, optimum thermal insulation requires dry masonry. Five percent moisture content is enough to reduce the insulating ability by as much as 60 percent. Thermal insulation, an issue closely associated with energy efficiency, can only be satisfactorily achieved by applying a water-repellent, impregnating agent. After all, optimum thermal insulation requires dry masonry. Five percent moisture content is enough to reduce the insulating ability by as much as 60 percent.

SILRES® BS 16 solves the problem perfectly. This organosilicon-based building protection product prevents damage before it occurs. 

The data presented in this brochure 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 brochure should be checked for their correctness 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.
WACKER SILICONES has more than forty years of expertise in the development of silicone-based masonry protection agents. The result is a solution remarkable for its efficacy, safety and durability.

A Stable Network
SILRES® BS 16 is a concentrated aqueous solution of potassium methyl siliconate, which reacts with CO₂ in the air to form Polymethylsiloxane. This substance forms a three-dimensional silicone resin network on mineral masonry substrates and in coatings. It repels water and remains permanently bound to the substrate.

Easy to Use
SILRES® BS 16 contains no solvents or surfactants, and when diluted in water, forms a homogeneous, clear solution. After it has been applied, SILRES® BS 16 reacts with the silicate matrix of the construction material. The higher the temperature and CO₂ concentration in the air, the faster the protective network is generated.

Water Simply Rolls Off
Hydrophobic impregnation with SILRES® BS 16 causes construction materials to repel water yet remain open to diffusion, thereby allowing them to breathe. The result is that water simply rolls off the surface, and water vapor escapes unhindered. This allows any existing damp areas to dry out, which also enhances the material's ability to insulate.

SILRES® BS 16 protects against water, salts and grime. Water vapor can escape despite the water-repellent hydrophobic impregnating agent.

FOR ALMOST EVERYTHING THAT’S ATTRACTIVE AND VALUABLE

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