

SILRES® BS 2001

Silane Emulsions

SILRES® BS 2001 is a water-thinnable, solventless emulsion, based on a mixture of silane and siloxane. Ready to use solutions of SILRES® BS 2001 serve as high quality, general purpose water repellents for impregnating and priming mineral surfaces. SILRES® BS 2001 emulsion contains a stabilized mixture of silane and siloxanes that are designed to hydrolyze once applied to the substrate. Alcohol is released and the emulsion is converted into a silicone resin water repellent. SILRES® BS 2001 reduces the capillary absorption of the building which it has penetrated, but does not clog the pores or capillaries. There is therefore little or no impairment of the building material's ability to breathe. The SILRES® BS 2001 is an excellent water repellent for many absorbent mineral substrates such as brick, natural sandstone, concrete, and mineral plasters. It is not as suitable for substrates such as reinforced concrete for bridges and roads, dense natural limestone and marble. Due to its aqueous consistency and storage stability when diluted, SILRES® BS 2001 is ideal for in-plant impregnation of building materials made of clay, aerated concrete, brick and fibrous cement. SILRES® BS 2001 may also serve as a water repellent primer for emulsion paints and plasters, silicone resin emulsion paints and silicone resin plasters as well.

Properties

- Good depth of penetration - Resistance to alkalis - Rapid development of water repellency - Provides good adhesion for paints - Water-based and environmentally compatible - Storage stable, even when diluted

Application details

Surface Preparation Surface preparation depends on substrate placement, type and strength, curing and finishing processes, age, condition, previous contamination, and the presence of previous coatings as well as the application of <><<>productname>. Surfaces should be clean from dust, dirt, oils, grease, curing compounds, other coatings, efflorescence, and laitance before applying SILRES® BS 2001. Cleaning methods which are compatible with the application of SILRES® BS 2001 include: - Mechanical - abrasive blasting (sand, baking soda, vacuum) ,, - Chemical - acid etching, stripping, solvent de-greasing, caustic soda scrubbing, alkaline soap scrubbing, high pressure washing, high pressure washing with sand If strongly acidic or caustic cleaning agents are used, neutralize the surface and completely wash to remove any residues. Before using any surface preparation method a test patch should be performed with the customer's approval to ensure that their needs are met. New concrete should be allowed to cure for at least 28 days before applying SILRES® BS 2001. In addition, any repair work should be performed at least 3 days before SILRES® BS 2001 is applied. SILRES® BS 2001 should be blended with water (tap water is suitable) to achieve the desired concentration before application. For most applications dilution rates of 1:4 to 1:9 provide good performance depending on the absorbency of the substrate. Two coats of the solution should be applied using a "wet-on-wet" procedure to ensure complete coverage. SILRES® BS 2001 emulsions can be applied by brushing, spraying or dipping. A test patch should be performed prior to general application with the customer's approval to ensure that desired water repellency and appearance is achieved.

Recoatability Substrates which are coated with SILRES® BS 2001 at dilution rates of 1:3 or higher (125 ft²/gallon) are generally re-coatable with water and solvent borne paints. Clean Up Thoroughly rinse application equipment with clean water. Disposal SILRES® BS 2001 must be disposed according to local, state and federal regulations. SILRES® BS 2001 and its dilutions should be treated as dilute solutions of "silicone resins" which are non-RCRA (Resource Conservation and Recovery Act) or nonhazardous wastes.

Packaging and storage

Storage

The "Best use before end date" of each batch is shown on the Certificate of Analysis. Storage beyond the date specified on the Certificate of Analysis does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

For specific information regarding safe handling of this material, please refer to the Safety Data Sheet.

QR Code SILRES® BS 2001



For technical, quality or product safety questions, please contact:

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