

SILRES[®] BS 36 US



Silicone Resin Emulsions

SILRES[®] BS 36 US is a stable, organo silicone containing water based emulsion. When applied to a surface it forms a stable, penetrating water repellent for enhancing a wide variety of porous mineral substrates including concrete, natural and artificial stone and unglazed ceramic tile. SILRES[®] BS 36 US is not recommended for below grade applications where hydrostatic pressure can be significant.



Properties

- Provides excellent water repellency to reduce cracking, spalling, freeze/thaw damage, chemical degradation, efflorescence, and dirt pickup, thereby lengthening substrate life and reducing maintenance costs.
- Enhances the features of the substrate providing a high gloss, wet-look appearance
- Repels water, reducing penetration while maintaining a consistent appearance
- Beads liquids
- Physically and chemically bonds to substrates increasing the service life, making cleaning easier, thereby reducing maintenance costs
- Improved UV stability
- Suitable for interior or exterior decorative stone and concrete projects

Technical data

General Characteristics

Property	Condition	Value	Method
pH	-	4.5 - 7.0	-
Active Content	-	32 - 38 %	-
Milky white liquid	-	-	-
Density	22 °C	1.02 - 1.10 g/cm ³	-
Liquid	-	-	-
White liquid	-	-	-

These figures are only intended as a guide and should not be used in preparing specifications.

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Store in a dry and cool place.

Observe local/state/federal regulations.

Store container in a well ventilated place.

Applications

- Concrete Protection
- Hydrophobic Impregnation
- Stone Color Enhancement

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. Surfaces should be clean from dust, dirt, oils, grease, curing compounds, other coatings, efflorescence, and laitance before applying SILRES® BS 36 US.

Cleaning methods which are compatible with the application of SILRES® BS 36 US 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.
- **Heat:** propane and acetylene torching.

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 desired results are achieved.

New concrete should be allowed to cure for at least 28 days before applying SILRES® BS 36 US. Substrate moisture level below 4% promotes penetration of product.

SILRES® BS 36 US is intended to be used at full strength or may be blended with water to desired ratio.

Mix before each use.

SILRES® BS 36 US emulsions can be applied by brush, sponge or roller. Multiple coats may be applied wet-on-wet.

Do not allow product to pool. Remove excess material before it cures.

Water and oil repellency starts to develop within 24 hours.

A test patch should be performed prior to general application with the customer's approval to ensure that desired appearance, water and oil repellency are achieved. It is advisable to test the product on an inconspicuous area.

Surfaces treated with SILRES® BS 36 US should be cleaned as soon as they have been exposed to contaminant. Paint is very difficult to remove once it has completely cured.

Treated surfaces should be protected from contamination for 24 hours.

Packaging and storage

Packaging

Storage The 'Best use before end' date of each batch is shown on the product label.

Storage beyond the date specified on the label 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.

The more dilute they are, the more they tend to cream. However, this phase separation may be reversed by brief stirring or agitation. This will restore it to a homogeneous emulsion, without loss of efficacy.

SILRES® BS 36 US contains minor amounts of a preservative that protects the emulsion against microbial contamination and fungal attack. The quality of the water used may make it necessary to add a biocide after dilution in principle, nearly any water-based preservative may be used.

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 36 US



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

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