

Silox[®]903 DF

High elastic and crack bridging liquid membrane

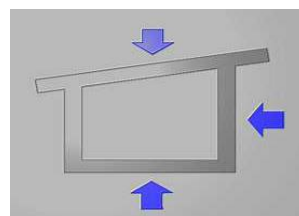
Silox[®]903 DF is a highly efficient protecting membrane for concrete on old roof coverings. Silox[®]903 DF is a one component system with easy and effortless processing possibilities. The system is physiological absolutely harmless.

Coatings made of Silox[®]903 DF are waterproof and as far as possible CO₂ tight. They are viscoplastic with high tear and tensile strength in combination with excellent adhesion on various substrates. The application is easy and without special equipment possible. The product is dilutable with water and the application with a push paint roller or with airless spraying technique is easy. Cleaning with water.

Silox[®]903 DF is an emulsion of a self-crosslinking, caoutchouc-like polymer, acid-resistant silicate fillers, colour pigments, additives and water. After application, the product dries very quickly to form a homogeneous, liquid-tight film (membrane) with very good resistance to alkalis, acids, UV light and weathering. Coating membranes made of Silox[®]903 DF are joint less, highly elastic and crack bridging.

Advantages

- Flexible and elastic membrane
- Water based compound to be applied even to damp undergrounds
- Non hazardous and solvent free, low odour
- Crack bridging and stain resistant
- Bonds well to suitably prepared concrete
- Quick drying. Typically touch dry in 1 hour
- Fibre reinforced
- Easy and efficient application
- Alkali resistant and suitable for fresh plaster



Silox[®]903 DF

Easy and efficient for cracked concrete parts

- flat roof
- facade and foundation
- engineer buildings

**Application
+
Processing**

The features of Silox®903 DF are a viscous and slight shear thinning consistence. The application is similar to normal dispersion colours, painting or spraying.

Silox® membranes should be applied at least 600 µm /0.6 mm thick (dry), corresponding to a wet coating thickness of 1 mm and a consumption of 1200 gr./m².

For roof coatings and areas with dynamic cracks we recommend dry layers of app. 1200 µm. The application should be done always in two layers applied in cross-coat. Two different colours are helpful.

The underground should be dry, clean and free from all separating substances. Pinholes, air porous and crack more than 0,1 mm width as well as other damages in concrete surfaces need special treatments e.g. with UP®-Steinspachtel 1013 which is highly recommended for this application.

Stonewalls must be clean and joints must be filled properly if not we recommend the use of a elastic slurry coating such as Cembond®M-947 Flex or the plastering with a cement mortar group III with Cembond®956 additive. For smooth concrete or plaster surfaces we recommend the use of a primer, DuroFlex®Primer 900-P primer. Silage containers or other ambitious objects should be primed with Silox®EPW 856.

Intensive sucking undergrounds must be primed to avoid a burn up of the coating.

If necessary, Silox®903 DF can be diluted with water (up to 10 %, z. e.g. to adjust the spray viscosity).

Pre-coats need to be completely dry before next application to avoid tension cracks in the surface.

Working joints or joints in precast elements could be additionally saved with HydroFlex 275, a special joint tape. The joint tape is applied in advance and afterwards overworked with Silox®903 DF coating.

Undergrounds with high risk of crack creation could be reinforced with glass textile or textile fibre which is embedded into the membrane.

**quick + efficient
Airless spaying
high pressure**



Properties **Product as delivered**

Binding agent	Copolymer
Density	Approx. 1,2 gr/ml 20°C
Components	1
Viscosity	Shear thinning consistence
Odour	Weak, specific
Colour	Light grey (other colours possible up to 500 kg)
Solvent	Not applicable



Features of the membrane

Water absorption	8 % after 28 days
Tear resistance	> 1,5 N/mm ²
Elongation at break	≥ 200%
Vapour diffusion equivalent	50 (mtr. air layer)
Consumption	1,2 kg/m ² for 600 µm dry film layer



Silox®903 DF

**Shear thinning consistence
and therefore easy
application in thick layers**

Storage Handling

Silox®903 DF liquid membrane is not a hazardous working material. Special protective measures are therefore not necessary during processing. However, compliance with the usual industrial hygiene rules and industrial safety regulations is also recommended for this product.

Silox®903 DF is not flammable. The material does not pose any risk during storage. The product contains water and is sensitive to frost; freezing makes it unusable. The shelf life of Silox®903 DF in tightly closed, unopened original drums is at least 12 months.

A safety data sheet is available for the product. It contains all current information on safe handling and disposal of the product and should be made available to all those who handle the product.

Recommended Accessories

UP® -Steinspachtel 1013

Spatle-, glue and repair mortar with quick hardening

Silox®860 D

High-Quality, stable repair and filling compound based on Epoxy. With excellent adhesion, even on damp concrete. Recommended for reprofiling and restoration of damaged concrete surfaces.

Silox®EPW 856

Epoxy Primer with excellent adhesion on nearly all undergrounds. Used as primer on intensive sucking undergrounds. Diffusion open, application on moist concrete.

Cembond® M-947 Flex

Highly flexible, mineral surface sealing. Can be applied as a slurry coat or thin-layer filler, for substrate preparation on masonry walls.

DuroFlex®Primer 900-P

Primer and bonding Bridge for Silox and DuroFlex Membranes. Prevents burning on sucking surfaces.

These technical information describe the present-day state of knowledge these product. They should only inform about the possibilities of application and could not release the applicator of his commitment to check the possibility to use the product for the required application. Information for processing can be found in processing instructions of our product. Information about safe handling can be found in our current safety data sheet.

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ARCAN Waterproof

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passion to invent 