



# SOLHYDSEAL 100

100% active  
hydrophobic silane monomer solution

SOLHYDSEAL 100 is a 100% active hydrophobic silane monomer solution which penetrates deep into the concrete or masonry substrate to create a hydrophobic layer within the matrix as well as on the surface.

SOLHYDSEAL 100 is a single component, solvent free, low V.O.C. material which can be applied on all siliceous materials. This can be performed in a humid environment as well as in low temperatures.

## ■ USES

With its capacity to penetrate deeply into the concrete or masonry matrix, SOLHYDSEAL 100 remains effective during many years. Its deep penetration protects structures against weathering, ultraviolet rays and abrasion. SOLHYDSEAL 100 will greatly reduce the effects of corrosion of the structure while mitigating the spread of deterioration caused by alkali-aggregate reactivity and alkali-silica reactivity.

### TYPICAL USES:

- Protection of bridge and overpass structures
- Protection of ramps and bridge decks
- Protection of parking slabs
- Protection of all other concrete or masonry structures

## ■ PRODUCT FEATURES

- Can be applied at -10°C
- Excellent surface penetration
- Offers excellent waterproofing while allowing for surface vapor transmission
- Prevents chloride ion penetration and prevents rebar corrosion
- Excellent abrasion resistance
- Quick drying
- Can be submitted to rain 2 hours after its application at 25°C

## ■ SURFACE PREPARATION

All surfaces must be properly cleaned before the application of any sealer. A surface which is contaminated with debris and oil will prevent proper penetration of the sealer. In most cases, sand blasting or blastak are acceptable methods for concrete surface preparation. No surface preparation is requirements for building envelopes such as block, brick or prefabricated concrete panels.

## ■ PRIMING

SOLHYDSEAL 100 does not require any primer.

## ■ PRODUCT APPLICATION

SOLHYDSEAL 100 is ready to use and can be applied by roller, by brush or sprayed. On exterior surface, it is not recommended to apply the SOLHYDSEAL 100 when rain is predicted within 2 hours following the application. SOLHYDSEAL 100 is not sensitive to humidity however better penetration is obtained when the product is applied on a dry surface (no rain during the 24 hours preceding the application)..

## ■ CURING

Once applied, the SOLHYDSEAL 100 dries rapidly. However, the reaction of the residual silane monomer with the substrate requires a minimum of 2 to 12 hours at a 25°C ambient temperature. Curing time will be significantly longer at lower temperatures.

## MATERIAL PHYSICAL PROPERTIES @ 25°C (77°F)

PHYSICAL PROPERTIES	
Solvent base	None
Active ingredients	Alkyltrialkoxysilane
Active ingredients	100 %
Density	0.87
Viscosity	0 to 5 cps
Color/Finish	Water white
V.O.C.	390g/L
Flash Point	62.8°C



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## ■ ESTIMATING / YIELD

Best results are obtained on a concrete surface at a rate of 5.5 m<sup>2</sup>/L. Building envelopes require an application rate of 5 m<sup>2</sup>/L. Actual yield will vary depending on the porosity of the substrate. Tests are recommended. Product is available in 20 L pails or 205 L drums.

## ■ PRECAUTIONS / RESTRICTIONS

- SOLHYDSEAL 100 can be applied at temperatures below -10°C, however you must ensure that no ice crystals are present on or inside the substrate.
- SOLHYDSEAL 100 is a flammable liquid and must be kept away from flames, sparks or other sources of ignition.

## ■ PACKAGING

### SOLHYDSEAL 100:

20 L pail  
205 L drums

## ■ RECOMMENDED TOOL

The following tools will assure a cost effective, satisfactory installation:

- Paint or masonry brush
- Short nap roller
- Airless type spray equipment (contact your local BMQ SOLUTIONS representative for more information on spraying equipment).

## ■ CLEANING

Use water to clean all tools and equipment, or simply let the material evaporate.

## ■ STORAGE

Store material in a dry, temperate area. The self life of material kept in a closed, unopened container is a minimum of one year.

## ■ SAFETY

See Material Safety Data Sheet.