



Silicone Shield™ S100W

Patented 1994

Description

The Formula S100w, Silicone Shield™, is a patented pool plaster additive that provides increased chemical and stain resistance for white marble pool plaster mixes. Silicone Shield creates a permanent integral water barrier that deters the long term corrosive and erosive effects of water.

Technical Description

S100w is a silane treated hydrophobic, white powdered admixture. Formula S100w has been designed specifically to be job site blended into white marble pool plaster. Silicone Shield makes three performance modifications.

1. It fills the capillaries of plaster with chemically inert, hydrophobic, silane modified powder, eliminating water intrusion into the plaster, and minimizing chemical attack.
2. S100w reduces the water required to fluidize the mix, resulting in less capillary action, less porosity and higher strength.
3. Pozzolonic ingredients reduce soluble calcium hydroxide cement compounds. S100w creates permanent surface water repellency as the plaster initially sets, protecting the new plaster at its most vulnerable state. The un-matched feature is that S100w works underwater and maintains vapor permeability, allowing the cement to harden normally. Because this unique admixture is free of solvents, completely dry and non-reactive with acids and chlorine, it cannot change form, discolor, breakdown, or leach from the plaster.

Packaging

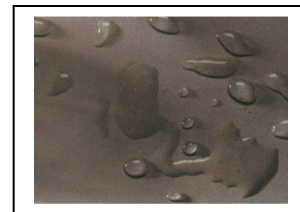
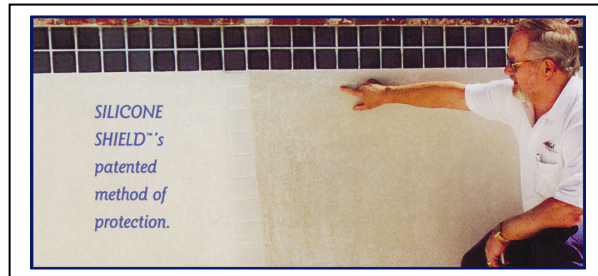
25lb bag
Custom packaging available upon request

Usage Rate

2.5% by weight of the total pool plaster mixture
For Example: 100lbs of Silicone Shield™ performance modifies 4000lbs of pool plaster mix.

Warning

This mix design is highly technical. Please keep it pure!
Do not contaminate your plaster with calcium chloride accelerators. Calcium Chloride counteracts our performance modifiers. Calcium Chloride is hydrophilic, highly soluble in water, and can retain this water causing moisture entrapment in the plaster.



Benefits

1. Reduces the etching effect that corrosive and erosive water chemistry has on marble aggregate based swimming pool plaster, extending the life of the finish.
2. Improves density, consistency and color.
3. Reduces plaster dusting, blotches, crazing, and efflorescence.
4. Improves resistance to staining by both inorganic and organic compounds.

Mixing

Add a partial amount of clean water
Add 3 bags of Type I Portland Cement
Add at least 6 bags of white pool grade aggregate
Add a full bag of Silicone Shield™ S100w 25lb equaling 2.5% of the total batch weight
Add the balance of your aggregate, cement, and water.

Application

Swimming pool plaster should be applied in two coats, referred to as a scratch and a second. Plaster should be pumped, troweled and finished per industry standard plaster application procedures. Repeated troweling will insure consistency and create the desired smooth finish. Chrome plated trowels should be used on the final hard trowel to eliminate trowel burn. Little or no water should be dashed on the finish when hard troweling. Material will set in approximately 3 hours at 80 degrees Fahrenheit. Pool can begin refilling as soon as 1 hour after final set. Pool plaster should always be closely inspected for water resistance prior to filling the pool. Care should always be taken to test the chemistry of fill water, prior to filling the pool.



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