



Silicone Shield™ S100W

PYRAMID CEMENT DATA SHEET

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™ S100G is available for pigmented pool plaster. Silicone Shield creates a permanent integral water barrier that deters the long term corrosive and erosive effects of water.

TECHNICAL

S100W is a silane treated hydrophobic, white powdered admixture. Formula S100 W 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. S100 W 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.

USAGE RATE

2.5% by weight of the total dry weight of your pool plaster.

For Example: 25lbs of Silicone Shield™ modifies ~1000 of dry pool plaster mix.

A typical batch of plaster with Silicone Shield™:

4 White Portland x94 lb bag = 376 lbs
 8 White Marble x100 lb bag = 800 lbs
 1 Silicone Shield™ x30 lb bag = 30 lbs (2.5%)
 1206 lbs dry weight

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™ S100 W 25lb equaling 2.5% of the total batch weight
 Add: the balance of your aggregate, cement, and water. (1 bag cement, 2 bags of aggregate 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.

Packaging

25lb bag, 55 bags to a pallet.
Custom packages are provided to each installer to match his specific mixer's batch size. For example, if you normally put approximately **1000lbs** in your mixer, we will provide you the correct number of **25lb** bags for your job. Custom packaging eliminates field measuring and mixing mistakes. Please know batch weight when ordering...

Materials are guaranteed with respect to uniformity and quality within manufacturing specifications. Seller makes no other warranty, expressed or implied, regarding the use of its products. Since use of the product is beyond seller's control, the buyer assumes all risks of use. Silicone Shield Warrantees are available to the pool owner as long as all requirements have been met by the plaster installer and the pool owner.

