

AuMiller Pools LLC
2438 Summerfield Rd.
Winter Park, FL 32792

Phone (407) 808-2660



March 1, 2023

Reference: City of New Port Richey Bid 23-016 – Activity
Pool Resurfacing Project

Qualifications and Experience

- i. AuMiller Pools has a full time renovation team that only performs renovation work for commercial pool facilities. We work for many municipalities that include but are not limited to the City of Jacksonville, City of Port Orange, Flagler County Schools, Lee County, Town of Ft. Myers Beach, City of Cape Coral and many more.

Most of the renovation projects for the municipalities that we have completed vary as to the age of the pool with some as old as 40+ years and some as new as 10. We understand that each pool has their own different challenges with outdated code related problems as well as equipment and plaster related problems. All of this work has been completed by AuMiller Pools in order to bring the pool into current code compliance and provide an up to date system for the owner.

AuMiller Pools self performs all aspects of commercial pool renovation work including but not limited to demolition, tile installation, plaster work, plumbing, and equipment replacement. We do not subcontract any work with regards to pool renovation work as this provides the most flexibility in providing and meeting any schedules that are agreed upon with our customers. Many times, subcontracted work is dependent upon another contractor's schedule and can delay projects beyond the control of the ownership and the prime contractor. We self perform all work for this reason that allows us to control the schedule and timing of work to ensure that the project is on time and in budget.

AuMiller Pools would not recommend using the Hydrazzo product for resurfacing. We have had previous clients including the YMCA in Ocala where the Hydrazzo material is extremely slippery and have had slip and falls inside the pool. This is especially concerning in a shallow water activity pool that we are proposing. I would recommend utilizing a quartz aggregate style material that is used in 90+ percent of commercial pools in Florida. The mainly cement based product provides a proper amount of slip resistance in shallow and deep water to not allow slip and falls and possible injury. The polished stone Hydrazzo can create a very slippery



surface in shallow water that can create an unsafe environment. Warranty information for the Quartz Aggregate finish is below.

Project Schedule

- i. Permitting – 1 week depending on the turnaround of the review process
- ii. Drain the pool and demo all existing tile - 2 weeks
- iii. Evaluate and remove any loose material that is not bonded to the concrete shell below and remove all non bonded material. – 1 week
- iv. Evaluate any cracks that are uncovered during the draining and removal of non bonded materials and report back to the City’s management. – Unkbnown
- v. Retile the waterline, backsplash, step edge and depth markers – 2 weeks
- vi. Bond Coat and Plaster the pool – 1 week
- vii. Fill the pool and balance chemicals – 1 week.
 1. Total Permitting/Construction timeframe – 8 weeks.

Price Quote:

This is a Lump Sum Project as per the scope of work. Provide a grand total cost to complete the project that does not include any Owners Contingency.

Total Project Base Bid: \$147,500 – One Hundred Forty Seven Thousand Five Hundred Dollars.

*Note: We have included a Payment & Performance Bond as part of this proposal per the prebid questions that were answered. We also have all of the insurances outlined that include worker’s compensation (\$500,000 Min) and general liability (\$1,000,000 Min).

Past Projects

References & Current and Previous Business with State and Local Agencies

Below is a partial list of government entities and references for your review of work completed during the past five years. Others can be provided upon request.

- i. Gold’s Gym Ocala
 1. Client: Stentiford Construction
 - a. Project Contact: Paul Jodray
 - i. Phone: (352) 418-9058
 - ii. Email: jodray.scs@cox.net



- b. Description of Work: New Construction of a Lap Pool including tile and finishes
- c. Year Completed: 2020
- d. Project Cost: \$285,000
- ii. Andrew Jackson High School – Jacksonville
 - 1. Client: City of Jacksonville
 - a. Project Contact: Keith Meyerl
 - i. Phone: (904) 255-7936
 - ii. Email: kmeyerl@coj.net
 - b. Description of Work: 5,568 SF lap pool – retiling and refinishing of the pool
 - c. Year Completed: 2020
 - d. Project Cost: \$160,000
 - iii. Julius Guinyard Pool – Jacksonville
 - a. Client: City of Jacksonville
 - b. Project Contact: Keith Meyerl
 - i. Phone: (904) 255-7936
 - ii. Email: kmeyerl@coj.net
 - c. Description of Work: 6,930 SF lap pool – retiling and refinishing of the pool
 - d. Year Completed: 2019
 - e. Project Cost: \$125,000
 - iv. Cape Coral Yacht Club Pool – Cape Coral
 - a. Client: City of Cape Coral
 - b. Project Contact: Chris Camp
 - i. Phone: (239) 574-0468
 - ii. Email: ccamp@capecoral.net
 - c. Description of Work: 4,770 SF lap pool – retiling and refinishing of the lap pool and wading pool. Scope also included refinishing of the acrylic deck for the complex.
 - d. Year Completed: 2019
 - e. Project Cost: \$285,000
 - v. Port Orange YMCA – Port Orange
 - a. Client: City of Port Orange
 - b. Project Contact: Frank Flagg
 - i. Phone: (386) 506-5586
 - ii. Email: fflagg@port-orange.org
 - c. Description of Work: 12,859 SF competition pool – complete plaster removal and replacement with a quartz aggregate finish
 - d. Year Completed: 2019



- e. Project Cost: \$160,000
- vi. Eugene Butler Middle School – Jacksonville
 - a. Client: City of Jacksonville
 - b. Project Contact: Keith Meyerl
 - i. Phone: (904) 255-7936
 - ii. Email: kmeyerl@coj.net
 - c. Description of Work: 5,568 SF lap pool – retiling and refinishing of the pool
 - d. Year Completed: 2018
 - e. Project Cost: \$145,000
- vii. Sandalwood High School – Jacksonville
 - a. Client: City of Jacksonville
 - b. Project Contact: Keith Meyerl
 - i. Phone: (904) 255-7936
 - ii. Email: kmeyerl@coj.net
 - c. Description of Work: 5,568 SF lap pool – retiling and refinishing of the pool
 - d. Year Completed: 2018
 - e. Project Cost: \$150,000

Sincerely,

AUMILLER POOLS LLC

A handwritten signature in black ink that reads "William J. AuMiller".

BJ AuMiller
President

DRUG-FREE WORKPLACE

Florida Statutes on Drug-Free Workplace Programs:

In case of tie bids, preference must be given to vendors submitting a certification with their bid/proposal certifying they have a drug-free workplace in accordance with Section 287.087, Florida Statutes. The drug free certification form below must be signed and returned with your bid.

DRUG-FREE WORKPLACE CERTIFICATION

In order to have a drug-free workplace program, a business shall:

Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.

Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.

Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in the first paragraph.

In the statement specified in the first paragraph, notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.

Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.

Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

VENDOR NAME: AUMILLER POOLS LLC BID NO: 23-016

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements

Vendor's Signature *William Aumiller*

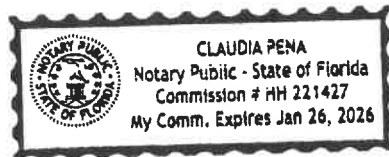
STATE OF: FLORIDA

COUNTY OF: ORANGE

PERSONALLY APPEARED BEFORE ME, the undersigned authority, WILLIAM AUMILLER who, after first being sworn by me, affixed his/her signature in the space provided above on this 1st day of MARCH 2023.

Claudia Pena
Notary Public
My commission expires: Jan 26, 2026

(Affix Seal)



**SWORN STATEMENT UNDER SECTION 287.133(3)(a),
FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES**

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted with Bid, Proposal or Contract No. 23-016 for
AUMILLER POOLS LLC

2. This sworn statement is submitted by WILLIAM AUMILLER
(name or entity, submitting sworn statement)

whose business address is 2438 SUMMERFIELD RD., WINTER PARK, FL 32792

and (if applicable) its Federal Employer Identification Number (FEIN) is 27-5026829

(If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement _____.)

3. My name is WILLIAM AUMILLER and my relationship to the entity named
(please print name of individual signing)
above is PRESIDENT.

4. I understand that a "public entity crime" as defined in Paragraph 287.133(l)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

I understand that "convicted" or "conviction" as defined in Paragraph 287.133(l)(b) Florida Statutes

5. Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, non juring trial, or entry of a plea of guilt or nolo contendere.

6. I understand that an "affiliate: as defined in Paragraph 287.133(l)(a), Florida Statutes,

1. A predecessor or successor of a person convicted of a public entity crime or
2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate

7. I understand that a "person" as defined in Paragraph 287.133(l)(e), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts for the provision of goods or

services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

8. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement (Please indicate which statement applies)

X Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.

_____ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989 AND (Please indicate which additional statement applies.)

_____ There has been a proceeding concerning the conviction before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. (Please attach a copy of the final order.)

_____ The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. (Please attach a copy of the final order.)

_____ The person or affiliate has not been placed in the convicted vendor list. (Please describe any action taken by or pending with the Department of General Services.)

By William Aumiller (signature) Date: 3/1/23

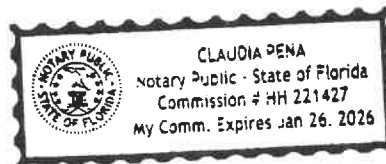
STATE OF: FLORIDA

COUNTY OF: ORANGE

PERSONALLY APPEARED BEFORE ME, the undersigned authority, WILLIAM AUMILLER who, after first being sworn by me, affixed his/her signature in the space provided above on this 1st day of MARCH 20 23.

Claudia Pena
Notary Public
My commission expires: Jan 26, 2026

(Affix Seal)



NONCOLLUSION AFFIDAVIT

STATE OF FLORIDA)
) SS
COUNTY OF ORANGE

WILLIAM AUMILLER *William A. Miller*, being first duly sworn deposes and says that:

1. He/she is the PRESIDENT, of _____
AUMILLER POOLS LLC, the Bidder that has submitted the attached Bid;
2. He/she is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;
3. Such bid is genuine and is not a collusive or sham Bid;
4. Neither the said Bidder nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including this affidavit, have in any way, colluded, conspired, connived or agreed, directly or indirectly, with any other Bidder, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted; or to refrain from bidding in connection with such Contract; or have in any manner, directly or indirectly, sought by agreement or collusion, or communication, or conference with any Bidder, firm, or person to fix the price or prices in the attached Bid or of any other Bidder, or to fix any overhead, profit, or cost elements of the Bid price or the Bid price in any other bidder, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the proposed Contract;
5. The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the bidder or any other of its agents, representatives, owners, employees or parties in interest, including his affidavit.

STATE OF: FLORIDA
COUNTY OF: ORANGE

PERSONALLY APPEARED BEFORE ME, the undersigned authority, WILLIAM AUMILLER who,
after first being sworn by me, affixed his/her signature in the space provided above on this 1st day of
MARCH 2023.

Claudia Pena

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(Affix Seal)



Pool, Spa & Fountain Finishes

DIAMOND BRITE

Exposed Aggregate Pool Finish



Diamond Brite Finishes are factory blends of Diamond Quartz™, select aggregates and polymer-modified Portland cement. This unique blend is ideal for new or existing submerged surfaces in gunite, shotcrete and concrete Swimming Pools, Spas and Water Features.

Available in a variety of colors and textures. Various hues and aggregate sizes are available to fit any design requirement. Diamond Brite finishes are factory blended to provide the pool owner with an extremely durable and attractive alternative to traditional white pool coatings.

- Superior Bonding
- High strength and rapid curing
- Extremely etch resistant
- Application can be completed the same day
- Aggregate exposure evenly controlled
- Easily Pumpable

MANUFACTURER:

SGM, Inc.
1502 SW 2nd Place
Pompano Beach, FL 33069-3220
(800) 641-9247
(954) 943-2288
Fax: (954) 943-2402
www.sgm.cc
sales@sgm.cc

INSTALLATION:

SURFACE PREPARATION:

Examine pool surfaces to identify conditions that might interfere with proper bonding of coating. Look for algae, mold, mildew, dirt, paint, mortar droppings, efflorescence, patching compounds, loose tile, cracked plaster, etc. Identify hollow spots in plaster by sounding.

Clean pool surfaces of all material that might interfere with proper bonding of coatings. Clean with high-pressure water or by sand blasting. Wash with chlorine until algae, mold, and mildew are gone. Wash oil and grease spots using trisodium phosphate or equivalent and water; soak if necessary. Remove all cleaning solutions via high-pressure washing.

Remove and repair all hollow and delaminated plaster. Saw cut an area 3 inches around bad spots and remove plaster inside the saw cut. Undercut the edges of remaining plaster. Fill

holes with specified patching cement SGM High Strength Render HSR.

Remove loose tile and fittings; undercut existing plaster 2 inches below the tile line, and around return lines and fittings to a depth of 3/8 inch. Stop water penetration from outside pool. Plug cracks and leaks around fittings using hydraulic cement (SGM Dynamite Pool Patch). Etch cleaned surface with muriatic acid solution. Use concentration necessary to clean and roughen surface; smooth surfaces may require higher concentration. Neutralize surface with solution of baking soda and water to eliminate acid residue, which can cause bond failure.

Remove remaining acid solutions via high-pressure washing. Plug pool inlets and outlets to prevent clogging with expandable plugs or threaded caps. Mark location of fittings using tape on coping or on a measured drawing. Place sump pump at main drain to remove all running and standing water. Do not begin installation until concrete pool shell has cured at least 28 days.

For renovation projects (plastering over an existing plaster pool finish) and poured or formed concrete shells apply SGM Bond Kote as directed. Allow Bond Kote to cure for at least 6 hours before plastering. Plaster should be applied to SGM Bond Kote within 3-5

days. If left for a longer period before finish is applied, ensure Bond Kote is clean and free of dirt, efflorescence and other contaminants. If necessary, clean Bond Kote by brushing vigorously while spraying with water; chlorine may be used as needed.

MIXING:

Diamond Brite is made in batches of 4,000 to 20,000lbs (1,800 to 9,000 kg.) using natural ingredients. For this reason there will be variations in shade between batches. Batch numbers are printed on the end of each individual bag. It is important that the user follow these instructions carefully to ensure the most consistent color throughout the pool.

Jobsite additives, such as calcium chloride solutions, pump-aides, or bonding agents can affect the color of this product. For best results mix product using only cool clean, potable water. If adding any other approved additives, hold a portion of the mix water to dissolve the additives, screen and add the final amount to mixer. Additives should be introduced at the end of the mixing process. Ensure that the additives are mixed with water and pre-dissolved.

1. Separate the bags according to the batch numbers on the bottom of each bag. **Record all batch numbers.**

www.sgm.cc 800.641.9247



Warranties submitted without valid batch numbers are VOID.

2. Blend different batches together in each mix according to the ratio present at the job site. For example: If there are 30 bags total on the job and there are 20 bags of Batch A and 10 bags of Batch B then use 2 bags of A to 1 bag of B in every mix.

Coverage: each 80 lb. bag will cover approximately 22 - 25 sq. ft., to a thickness of minimum 3/8" - 1/2". Surface roughness affects coverage rates.

3. The shelf life of Diamond Brite is up to one year in unopened properly stored container. Diamond Brite can be mixed by using low-speed paddle mixer, low rpm drill with mud paddle, ribbon blender or concrete plaster mixer. Measure and add 1 1/2 to 2 gallons (5.7 to 7.6 L) of clean potable water to mixer.

4. Hold back a portion of the water and add as necessary as mixing progresses. Lower water to cement ratios will produce plaster of greater strength and density. Therefore it is best to use as little water as needed to produce a workable mix. Excess water will reduce strength and increase shrinkage (check) cracks.

Note: Mix water quality is extremely important. Well water or water high in metal and mineral content will cause discoloration in finished Diamond Brite. Additionally, water of high hardness or alkalinity will cause the plaster to effloresce, releasing high levels of salts that produce calcium scale. This is especially true of colored Diamond Brite such as Midnight Blue, Onyx, Tahoe Blue and French Gray. Check mix water for metals, minerals, hardness and alkalinity before using.

Start mixer and add Diamond Brite as quickly as possible to ensure that all the material has the proper mix time. Mix for a minimum of 5 minutes but no more than 10 minutes. This ensures even distribution of aggregates and increases the working time of the plaster. Insufficient mix time will result in uneven setting and shade variations. Too much mix time will produce an

overall weaker plaster and may entrain undesirable air bubbles. As a rule of thumb, mix for only the amount of time required to produce a consistent, homogenous mix. Calcium Chloride may be used as an accelerator. It must be fully dissolved in water allowing impurities to settle out. Pour off the solution from the top being careful not to add impurities to the mix. The impurities found in calcium chloride flake and pellets have been known to cause discoloration in pool plaster. No more than 2% by weight of cement (about 1/2 lb. per bag) can be used. Overuse may cause discoloration.

PUMPING:

Although it is not necessary to use a plaster pump, many contractors do. Included here are some helpful hints for successful pumping. Increase the size of the pump manifold from 3" to 4". Change the valve ball from plastic to steel to improve longevity. Set plaster pump to the lowest gear by moving the belt. Always begin pumping with a full stroke on the main piston. This is accomplished by advancing the wheel until the cam is at its highest position.

Prepare a slurry of cement and water or pump aid and run it through the pump first to prime the pump and lubricate the hoses. Pour the mixed plaster slowly into the pump hopper. Do not pour all the material in at once. Agitate the material in the hopper to prevent separation of the cement and aggregate.

Avoid unnecessary stopping during the pumping process. Diamond Brite aggregate will tend to settle in the pump manifold and hoses when the pump is stopped. Agitate the remaining material left in the hopper to reduce clogging. Do not try to clear a blockage using the pump. Disassemble and clean the manifold and hoses when clogged. Do not over-water mix. This will only cause the material to separate, clogging the pump and hoses.

APPLICATION:

Substrate should be cool and damp but not dripping wet. Mist the shell with cool, clean potable water. Non-

absorbed water may be removed by using sponges and/ or air. Standing water will weaken Diamond Brite and may cause washouts. **Note:** Hot, dry shells will cause rapid setting of the plaster and result in check or shrinkage cracking and delamination.

All materials and effected areas should remain above 50°F (10°C) or below 100°F (38°C) 24 hrs. prior and 72 hrs after placement. Discard unmixed material (lumps).

Apply plaster liberally with flat side of trowel using sufficient pressure to key in a scratch coat on the vertical surfaces. Beginning with the shady walls and working to the sunny walls, trowel a scratch coat onto the walls and allow to set up until it becomes tacky. The set time will vary according to the temperature and humidity. Once the scratch coat has become tacky, apply a finish coat to the entire pool surface beginning in bowl area and working toward the shallow end, troweling and blending walls and floor together to achieve a seamless appearance while working to a final thickness of 3/8" to one-half inch (1/2") (10 mm-12 mm).

Uniform troweling will help to ensure even exposure, reduce washouts and produce a comfortable slip-resistant finish. The technique of "slick troweling" is recommended. During application make several passes with pool trowels to compact the aggregate and ensure a smooth dense finish. In this process the cement paste is brought to the surface during troweling, then removed with the trowel. This produces a slick surface and minimizes the exposure needed. Small amounts of lubrication water may be necessary for smoothing out and compacting the finish in this process.

The aggregate can be seen through a thin film of cement paste after troweling is complete. Special attention must be given to the filling in of spike holes. The applicator must be careful to fill all spike holes with Diamond Brite aggregate to avoid visible spike holes. Extra care must be taken to ensure proper troweling in the coves and corners. Specialty trowels are required for these areas. Insufficient troweling in these

areas will result in roughness and washouts (loss of cement and aggregate) during the exposure process.

EXPOSURE:

Note: You must have one workman for every 300 square feet to properly expose Diamond Brite. The exposure time is limited to approximately one hour but will vary according to local conditions. Beginning too early or too late will result in uneven exposure. Some areas may be ready for exposure while other areas are still being troweled. Constant inspection of the Diamond Brite for readiness is imperative. There are several techniques commonly used to expose Diamond Brite. The following is a list of the most popular techniques.

I. Water Washing With Brushes

Note: This is by far the most effective technique and produces the best results with standard Diamond Brite Finishes. **It is not recommended for the Diamond Brite Quartz Series Finishes.** When the Diamond Brite has lost its sheen or is no longer damp, it may be ready for exposure with soft bristle brushes and water. The material must be sufficiently set up to allow applicators to walk on the floor without leaving footprints. Wear white cotton socks or foam shoes when exposing Diamond Brite. Boots and bare feet are not recommended. Test the plaster for readiness by carefully washing a small area with a soft bristle brush.

If the cream washes away without losing aggregate the exposure process may begin. Starting with sunny or fast setting areas begin washing away cement paste with water and brushes. Use a bucket first then progress to a soft flow of water from a garden hose as the material begins to harden. Begin using stiff bristle brushes as the set progresses. Examine the plaster for hot spots that may be setting quickly. Mist these areas with water to allow longer exposure time. Over-cured cement paste will not remove easily and may require stiff bristle brushes to remove. Avoid slow setting areas like shady walls and the bowl.

Washing too soon in these areas will

cause washouts. If an area washes out it must be re-troweled immediately. Keep some extra Diamond Brite mixed up for use in patching washout areas. Keep a sump pump running in the main drain at all times to discharge the wash solution. Dispose of wash as directed by local requirements. Avoid leaving hoses, buckets or any other items on the plaster during exposure. Any object left on the plaster during this critical phase may leave a "shadow" on the surface. In the event of shadowing heat may be carefully applied to remove the discoloration. When all of the cement paste has been removed from the surface uniformly, the brush phase is complete. If done thoroughly, this will complete the exposure process. The process of acid washing as described below is optional. If desired, an acid wash may now be performed using a 25% solution of Muriatic Acid (higher concentrations may be needed for stubborn areas) and water to remove the thin film that may remain on the surface. Proper safety equipment must be worn at all times. Begin washing the bowl first and work up to the shallow end. Following this procedure will minimize "rivers" or streaks on the floor. The use of an acid wash additive to reduce fumes and ensure uniform coverage is highly recommended. Neutralize and discard the wash solution according to local requirements. Neutralize acid remaining on the Diamond Brite with Soda Ash and water to avoid discoloration.

II. Acid Washing

Note: This technique is commonly used in cold climates or when the plasterers lack sufficient experience to undertake water washing. It is easier to do but can produce a less uniform finish. Use this technique when applying the Quartz Series. After troweling, allow the plaster to fully set up. This may take anywhere from one to a few hours or overnight, depending on local jobsite conditions. Begin acid washing by using a 25% solution of Muriatic Acid (higher concentrations may be needed for stubborn areas) and water to remove the cement film that may remain on the surface. Increase the concentration of the acid solution as needed.

Proper safety equipment must be worn at all times. Begin washing the bowl first and work up to the shallow end. Following this procedure will minimize "rivers" or streaks on the floor. Acid wash walls and steps last. Do not allow acid wash solution to puddle in the bowl area. Use a sump pump to constantly discard the run off after it is diluted and neutralized. The use of an acid wash additive to reduce fumes and ensure uniform coverage is highly recommended. Neutralize and discard the wash solution according to local requirements. Neutralize acid remaining on the Diamond Brite with Soda Ash and water to avoid discoloration.

III. Wet Acid Wash

Note: Also called Acid Start-up or No Drain Acid wash. This technique is sometimes used after water washing. It is also used in areas where the fill water is high in alkalinity and or hardness. When used alone without water washing this technique produces the least desirable results. It will not remove all of the cement paste evenly and may result in a streaked appearance. Remove all metal such as ladders and lights from the pool and turn off the circulation system. After filling the pool test the alkalinity to determine the amount of Muriatic acid needed to lower the Total Alkalinity to zero. Distribute the acid evenly throughout the pool. Brush the pool thoroughly over the entire surface twice daily for 3 days. Add a sequestering agent and raise the pH to the proper level with Soda Ash. Start the circulation system and follow the start up instructions.

IV. Powerwash Exposure Technique

Hard trowel pool to uniform smooth finish. Let finish air dry for 1-3 hours after completion. Begin acid wash process by filling pool with 8 to 10 inches of water. This water will buffer acid solution during exposure process. Acid wash with 100% muriatic acid starting with walls working down to bowl. Leave acid on for approx. 1-2 minutes before rinsing off with hose. Keep constant water on floor to diffuse acid solution avoiding streaks. Keep acid washed areas wet thru entire

process or cement paste will re-set. Complete acid wash on floor and bowl of pool, finish by pumping out water. Begin power-washing phase with 2500 PSI machine using 45-degree nozzle. Keep tip 12 to 18 inches away from surface perpendicular to plaster finish. Power wash surface with approx. 20% overlap to ensure complete exposure. Start power-washing walls from tile line thru cove of pool, finish with floor. Pump out remaining water; install main drain covers, lights and fittings.

INITIAL FILL and BALANCING, & OPTIMUM POOL and SPA WATER CHEMISTRY CONDITIONS

In accordance with the National Plasterers Council, Inc. ("NPC") standards, it is recommended that the following pool and spa water chemistry conditions be maintained on an ongoing basis for the longevity of the interior pool and spa finish. These values are important to prevent corrosion, deterioration, discoloration, scaling or other problems. For more information refer to your local agency having jurisdiction or NPC.

Follow recommended fill and balancing procedures to ensure a successful start-up. Fill pool completely and without interruption with clean, potable water. The use of a filter during fill is strongly recommended. The initial fill water is the most important water that the pool will receive and must be tested, recorded and adjusted according to the following parameters by an experienced pool professional. For the first thirty days (30) the pH and alkalinity must be monitored and adjusted (if applicable) every three (3) to five (5) days. All other chemicals monitored and adjusted (if applicable) every seven (7) to ten (10) days. The pool water must be tested regularly and documented monthly by a reputable company using a computerized system. Monitoring the pool water regularly will not only affect the new finish but will keep it looking new. Improper water chemistry will void the limited residential / commercial warranty. It is recommended that a quality sequestering agent be used in the initial start-up in accordance with the

manufacturer's instructions and then a recommended maintenance dosage per the sequestering agent's manufacturer instructions.

FIRST DAY: Add sequestering agent upon initial fill per manufacturer's instructions. Adjust pH to 7.2 - 7.6 and total alkalinity to 80 -120 PPM. Maintain calcium hardness at a minimum of 125 PPM for the first three days, then adjust to 200-400 PPM thereafter. Dissolve chemicals completely in water and disperse throughout pool.

SECOND DAY: Record pH, total alkalinity, calcium hardness and temperature levels. Adjust pH to 7.4 - 7.6 and total alkalinity to 80-120 PPM. Dissolve all chemicals completely in water before adding to pool, and allow sufficient time for each chemical to be fully dispersed before adding other chemicals. **DO NOT ADD CHLORINE**, and brush entire pool twice daily for the first three days.

THIRD DAY: Repeat steps from Second Day. Adjust chemistry to the following levels:

Free Chlorine: 1.0 - 3.0 PPM
pH: 7.4 -7.6
Total Alkalinity: 80 -120 PPM
Calcium Hardness: 200 - 400 PPM
Stabilizer: 30 - 60 PPM

Adjust circulating pump timer to normal operating hours. Brush the pool walls and floor daily for the first two (2) weeks. Do not vacuum pool with wheeled vacuum for 14 days. Putting a wheel cleaner in the pool prematurely can cause wheel marks/ tracks to show up on the pool finish. Do not install an automatic pool cleaner for 28 days. No salt should be added for 28 days. Please make sure the water pH and alkalinity is balanced prior to the use of salt chlorine generators.

DAILY WATER CHEMISTRY AFTER 28 DAYS

Maintain the water chemistry using the **Langelier Saturation Index (LSI) maintained between 0.0 and +0.3.**

Description / Pool & Spa Water Levels

Free Chlorine –
Above 4.0ppm
may cause corrosion 1 - 3PPM
Total Chlorine 1 - 3PPM
pH 7.4 - 7.6
Alkalinity 80 - 120 PPM
Calcium Hardness 200 - 400 PPM
Cyanuric Acid 50 - 80 PPM
TDS 300 - 1800 PPM
(Non-Salt Pools)
Salt Level 2500 - 3500 PPM
(Salt Chlorination ONLY)

CAUTION:

WARNING-EYE IRRITANT CONTAINS PORTLAND CEMENT. Product is alkaline on contact with water. Avoid splashing into eyes or contact with skin. During mixing or application avoid contact with eyes. In case of such contact, flood eyes repeatedly with water and call physician. Wash thoroughly after handling and before smoking or eating. Do not take internally. Contains free Silica. Avoid breathing dust. Prolonged exposure to dust may cause delayed lung disease (Silicosis). **WARNING:** This product can expose you to chemicals including silica, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov. Wear NIOSH approved mask for Silica dust. **KEEP OUT OF REACH OF CHILDREN.**

SHELF LIFE:

Up to one year from date of manufacture in unopened properly stored container.

AVAILABILITY & COST:

Availability: SGM, Inc has manufacturing and distribution inventory facilities throughout the United States and abroad, allowing for timely deliveries. Contact SGM, Inc for local availability. **Packaging:** multi-ply heavy duty lined bag, net wt. 80 lb. (36 kg). **Cost:** Diamond Brite is competitively priced. For specific price information, contact SGM, Inc.

WARRANTY:

SGM Inc. warrants this product will perform in accordance with its intended

use for a period of one year from the date of manufacture. Any claim for defective product must be submitted in writing to SGM Inc. and samples of defect must be provided. EXCEPT AS PROVIDED HEREIN, SGM INC. MAKES NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. IN NO EVENT SHALL SGM INC. BE LIABLE FOR DAMAGES OF ANY KIND OR NATURE, WHETHER ARISING BY CONTRACT, TORT OR OTHERWISE. SGM INC.'S SOLE OBLIGATION WILL BE TO REPLACE ANY PRODUCT DETERMINED BY SGM INC. TO BE DEFECTIVE. Customers may acquire an extended 5-year commercial or 10-year residential warranty. Refer to SGM warranty.



WARNING: This product can expose you to chemicals including silica, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

MAINTENANCE:

Diamond Brite's lifetime will be greatly enhanced through proper and regular maintenance. Test and record water chemistry values once a week, and adjust as indicated per water-balance table recommendations. Brush entire pool, walls and floor weekly. Remove any debris and foreign materials immediately to prevent staining. Check and maintain filter, pump motor and skimmer baskets to maintain proper flow and filtering action. If unable to perform regular weekly maintenance, the services of a qualified licensed pool service professional should be obtained.

TECHNICAL SERVICES:

Technical assistance, including more detailed information, product literature, test results, project list, samples, assistance in preparing project specifications and arrangements for job site inspection and supervision, is available by contact Technical services department.

(800) 641-9247
(954) 943-2288
Fax: (954) 943-2402
www.sgm.cc
ts@sgm.cc

Pool, Spa & Fountain Finishes

DIAMOND BRITE

Exposed Aggregate Pool Finish



TECHNICAL DATA

APPLICABLE STANDARDS

ASTM International (ASTM) ANSI American National Standard Institute (ANSI)

ASTM D 4086, ASTM E1477, ASTM E 1347

Many building departments and health departments require commercial swimming pool and spa finish coatings shall be comprised of a non-pigmented white cementitious binder and shall have a dry Lightness level (CIE L value) of

80.0 or greater and a wet Luminous Reflectance Value (CIE Y value) of 50.0 or greater. The Reflectance Value wet test shows the reflective value of a finish with "0" being the least reflective and "100" being the most reflective. Please see the recorded test values in the table below.*

"Pool finish, including bottom and sides, shall be of white or light colored material determined visually to contrast least with a value of gray whiter than 50 percent black on an artist's gray scale, or shown by reflectance testing to reflect more than 50 percent of visible light." Please see the recorded test values in the table.** Please consult your state's compliance requirements for commercial pool and spa finishes.

Reflectance Testing Values for Diamond Brite Expose Aggregate Pool Finish - Commercial Compliance***				
Diamond Brite Color	CIE L Value DRY	CIE Y Value WET	Reflectance Value WET 0 - 100	Munsell Value Scale ⁽¹⁾
COMMERCIAL WHITE	88.28	65.67	81	9
SUPER BLUE	81.09	52.30	73	6.5
BLUE	82.65	53.79	74	7
COOL BLUE	84.43	54.33	76	8
BLUE QUARTZ	84.09	54.10	67	8
IVORY	86.03	58.49	78	8.5
OYSTER QUARTZ	82.22	57.55	77	7
AQUA QUARTZ	84.08	54.00	66	8
MARLIN BLUE	81.89	52.98	72	6.5
AQUA BLUE	83.83	54.06	75	7.5
CLASSIC	82.19	53.33	74	7

Reflectance Testing Values for Diamond Brite Expose Aggregate Pool Finish				
ONYX	44.54	7.71	39	2
FRENCH GRAY	64.20	21.50	48	4.5
TAHOE BLUE	65.13	25.07	49	5
MIDNIGHT BLUE	56.04	16.89	41	4
VERDE	65.28	26.27	44	4.5

***Highlighted finishes comply with Florida Building Code 454.1.2.4 for commercial use.

* Refers to Florida building and health requirements ** North Carolina rules governing public swimming pools 15A NCAC 18A .2514 requirements.

⁽¹⁾ The commercial compliant Diamond Brite finishes have been evaluated and exceed the (MAHC) Model Aquatic Health Code of greater than 6.5 on the Munsell value scale.

Our material is tested and certified by independent laboratories. All data is given in good faith, however, we reserve the right to change products and specifications without notice. SGM advises interested parties to satisfy themselves as to the accuracy of any data and seek certification if appropriate.

Pool, Spa & Fountain Finishes

DIAMOND BRITE Exposed Aggregate Pool Finish



TECHNICAL DATA

APPLICABLE STANDARDS

ASTM International (ASTM)

ANSI American National Standard Institute (ANSI)

ASTM C 1028-07 standard test method for slip resistance.		
Diamond Brite	Diamond Brite Color	Reading as lbf
Dry Slip Resistance (Rough Finish)	Marlin Blue	0.86
	Classic	
	Midnight Blue	
	French Gray	
	Tahoe Blue	
	Onyx	
	Super Blue	
	Cool Blue	
	Verde	
	Ivory	
Dry Slip Resistance (Smoother Finish)	Oyster Quartz	0.73
	Blue Quartz	
	Aqua Quartz	

ANSI 118.7 standard test method for flexural strength (psi) modified.	
Diamond Brite	Reading as psi.
28 days	720

Standard test method for linear shrinkage (%)	
Diamond Brite	Reading as %
Dry Finish (smooth trowel)	0.73
Dry Finish (exposed)	0.86

Standard test method for tensile adhesion to concrete [N/mm ²]	
Diamond Brite	Reading as [N/mm ²]
NaCL 60° C Cycle	1.40
28 day	0.80

ASTM C 109 standard test method for compressive strength (psi) of hydraulic cement mortars.	
Diamond Brite	Reading as psi.
24 hours	2950
7 days	5750
14 days	5970
28 days	6640

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