

Masonry Construction: Wall Options & Methods...

History is preserved in the things we build – our coliseums, temples, castles, government centers, universities and cities. Certainly, the history of man is captured in the history of architecture. The development of masonry construction made it possible. Stone provides its own beauty and elegance, but how to finish concrete and concrete block, yet retain the underlying permanence and strength?

Triarch coatings provide an ideal solution; providing a pleasing aesthetic value, functional long term performance at a reasonable price. Directly applied to cementitious and masonry substrates, Triarch coatings offer a cost effective means of wall finishing without sacrificing the construction schedule.

New Construction: New masonry and cement construction will last a very long time. But non-decorative masonry often imparts a utilitarian coldness to a space, not lending itself to thoughtful, human occupants. Conventional paint will change the color, but does little to improve the appearance and the same utilitarian coldness persists, be it interior or exterior.

Renovation: With door frames, window casings, electrical switch plates and outlets in place, changing an existing building can be complicated and expensive. Direct application of Triarch coatings negates the need to consider moving or purchasing new frames, casings, and electrical connections; making the project less expensive and faster. As suggested in the photo below, Triarch coatings may be applied over mixed substrates to result in a unified, continuous wall finish.



After a quick scarifying of only the glazed block, both the brick and block in this elementary school renovation will receive SKIMM™ to level and smooth the walls. The Duroplex® system will be applied as a finish coat.

Some glazed or fired surfaces do not need scarifying prior to applying Triarch finishes when Triarch's bonding primer is applied.

Step 1: Two product options to cover up grout lines, block face, & mortar joints to obtain a smooth substrate.

For wall imperfections averaging less than 1/4"

SKIMM™

At over 75% solids, SKIMM provides a fast, cost effective means of smoothing and leveling concrete masonry units (CMU), brick or less than perfect concrete pours. High solids water-based acrylic material, such as SKIMM, has very low shrinkage, resulting in a labor savings over alternative materials. Packaged in a 5-gallon pail, simply remove the lid and go. At the installers option, trowel, spray or texture roller apply directly to the substrate. Knife it flat, throwing the excess back into the pail for future use; very little material waste and no wasted labor preparing materials. With zero VOCs, SKIMM meets all LEED low emitting material criteria. SKIMM may be used interior or exterior and cures very hard with excellent adhesion. Glazed block often requires a quick scarifying, followed by applying SKIMM to level the face of the block. With a perm rating of approximately 28, SKIMM may be directly applied to less than fully cured concrete ("green concrete"), as it allows embedded moisture to continue to evaporate through the SKIMM. See our data sheet (T101) on our website for more details.

Picture below shows a CMU wall in BEQ after application of SKIMM—still curing. The straight edge shows the degree of smoothness and wall leveling obtained with SKIMM (no light visible under the straightedge).



Moisture is still present in the SKIMM making the grout lines obviously still visible, but the CMU wall is smooth and flush to the touch. When the moisture evaporates in a day or two the grout lines will disappear. Plexture will be applied on top of the SKIMM

For wall imperfections averaging greater than 1/4"

REFORMIT™

For truly deep wall voids, use REFORMIT instead of SKIMM. Packaged dry in 50 lb bags, REFORMIT is a leveling material made from polymer modified cement with fiber reinforcing resulting in a chemical curing process. Suitable for interior or exterior use, REFORMIT may be trowel applied up to 1/4" per coat, allowing rapid leveling of most wall surfaces. Simply mix REFORMIT powder with water and start applying. The acrylic modifier adds flexibility and anti-cracking characteristics, and the fibers add strength. See our data pages (T116) on our website for more details.

Exterior of new high school in FL during construction. REFORMIT has been applied over CMU to level it. A coat of white primer as been applied on top of the REFORMIT in preparation for final finish system of Duroplex® EXT (exterior version of Duroplex).



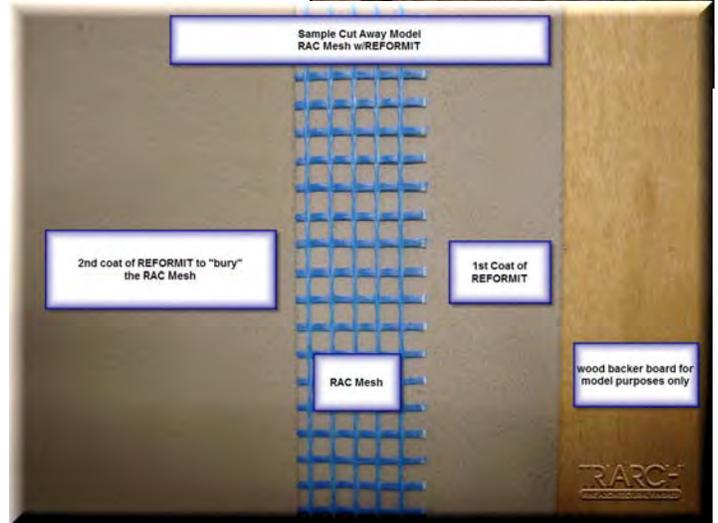
Contemporary CMU construction using REFORMIT as parging material. Buildings will be finished with Duroplex EXT.



Problem Solving Products

The discussion on the proceeding page assumes the substrate is sound and ready to receive our floating compound. But what about substrates that are in poor condition and need to be tied together with some kind of bridging technique? Two products that often work hand in hand are RAC™ Mesh and our cement based surfacing compound REFORMIT™. In cases where the wall surface imperfections are 1/4" or greater, REFORMIT can be a superior solution to our own SKIMM®. Project substrate conditions should be thoroughly reviewed and discussed with Triarch technical staff to optimize any solution.

Shown left is a masonry wall in a poor condition that will receive RAC Mesh and REFORMIT.



Country Club Remodel

Located just 30 miles from Tampa Airport is the well known resort and conference center, the Saddlebrook Resort. With 800 guestrooms, tennis, golf, dining, spa and 95,000 sqft of meeting space, Saddlebrook is a well known destination for corporate events, golf enthusiasts and vacationers.

<http://www.saddlebrook.com/> Last year Saddlebrook embarked on a rolling construction project to upgrade the exterior appearance of all it's residential units. Older style wood construction needed replacement. The design directive was to make the units look more contemporary with cleaner lines. Metal railing was to replace the aging cedar railing. Triarch's REFORMIT figured prominently in the reconstruction process to level rough areas, fill voids, and provide a smooth final pre-paint finish that is weatherproof and not susceptible to Florida insects.



Step 2 (finish selection): Three different wall finishes

Duroplex®

With an almost unlimited color palette and dozens of patterns available, Duroplex provides a wide variety of design options to cover masonry substrates. At a cured surface hardness of approximately 80% of mild steel, Duroplex maintains all the positive characteristics of masonry construction – one tough wall. Integral and color fast pigmentation helps to visually hide any possible dings and prevents discoloration. Completely compatible with SKIMM and REFORMIT, the system breathes (28 perm rating) to allow any residual moisture in the masonry to evaporate through the coating system. Backed by a ten year warranty against any mold or mildew growth and ten year labor and materials warranty on product integrity, Duroplex will provide years of maintenance free performance on interior or exterior surfaces. **(See warranty documents for specific warranty representations and any exclusions)** Duroplex is also completely washable and scrubable, conforms to LEED Low VOC criteria, and Class A rate for flame and smoke. Past projects include stadiums, permanent and temporary military housing, courthouses, public aquariums, university housing, student centers, airports and hospitals.

See our data page (T102) and project photos on our website for more details.

Duroplex may also be directly applied to masonry on building exteriors. Data page T105 on our website

At right, Duroplex in Smooth Float finish applied above and below reveal transition at 36". Applied on top of SKIMM that was applied full wall height over CMU wall assembly for interior swimming pool space. (Westin National Hotel—Arlington, VA)

Plecture®

Rapidly applied by airless spray and a texture spray rig, Plecture provides an economical solution to finishing masonry. Float the wall with either SKIMM or REFORMIT and rapidly apply Plecture to deliver a nicely finished wall meeting 3-star hotel standards. Integral and color fast pigmentation contribute to the performance package, making Plecture a long term solution. The Plecture system has a 21 perm rating so as not to trap any substrate moisture. Backed by a five year warranty against any mold or mildew growth and five year labor & materials warranty on product integrity, Plecture will provide years of maintenance free performance. **(See warranty documents for specific warranty representations and any exclusions)** Like its big sister Duroplex, Plecture is also completely washable and scrubable. It conforms to LEED Low VOC criteria, and is Class A rated for flame & smoke. Past projects include convention centers, BEQS, TLFS, municipal buildings, student housing, and pedestrian tunnels. See our data pages (T110) for more details.

Granyte™ - a seamless stone solution

Build with masonry, float with SKIMM, finish with Granyte to create an expensive looking stone wall for a fraction of the cost of structural or veneer stone. **Suitable for the interior or exterior**, Granyte Finish Coating system combines small stone aggregates and mica to produce a trowel applied seamless stone veneer. Durable, rock hard, breathable, washable, impervious to water, UV stable, mold and mildew resistant, are but a few of the performance features of Granyte. Backed by a ten year warranty, Granyte will provide years of maintenance free performance. **(See warranty documents for specific warranty representations and any exclusions)** See our data pages (T109) on our website for more details.

See **Coatings Design™ - Granyte** brochure for additional product options.





www.triarchinc.com

Some of documents on our website that may interest you:

SKIMM:

- Data Sheet T101,
- Photos of SKIMM covering up CMU
- Specifications T301

REFORMIT

- Data Sheet T116

Duroplex

- Data Sheet T102, Product brochure T1220
- Photos of installations
- Tests & Sustainability T1210
- Specifications T302
- Abrasion & Impact performance over various wall board substrates T1209

Plecture

- Data Sheet T110, Product brochure T1221
- Photos of Installations
- Tests & Sustainability T1215
- Specifications T310
- Coatings Design — Plecture

Granyte:

- Data Sheet T109
- Photos of Installations
- Specifications T309
- Coatings Design — Granyte



Left: typical BEQ corridor with unfinished CMU,

Below: Same corridor after application of SKIMM to level the CMU, but before application of Plecture finish system.



Same corridor almost finished— Plecture system applied over SKIMM



Granyte System applied over CMU.

Shown in color: #154 Raw Silk.