BROCK WHITE
CONSTRUCTION MATERIALS

UPDATE

SUMMER 2011 • CANADA EDITION

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NEW PRODUCT

AquaBlok® Composite Particle System

PONDSEAL™

LOSING YOUR LAKE? STOP THE LEAK!

PONDSEAL offers reliable bentonite clay delivery through water creating an impermeable seal to stop leaks in ponds and other waterways. The product's weight and structure allow each composite particle to sink and selfcompact, adding physical integrity to the resulting sealant layer. Once a water body is determined to be leaking, traditional techniques limit the remedy options.

Unlike with other bentonite-based alternatives (e.g. powders, chips, pellets), PONDSEAL will not drift or dissipate, so the material is certain to go exactly where you place it and where you need it. Appropriate applications include ponds, lakes, reservoirs, canals, dams, and more.

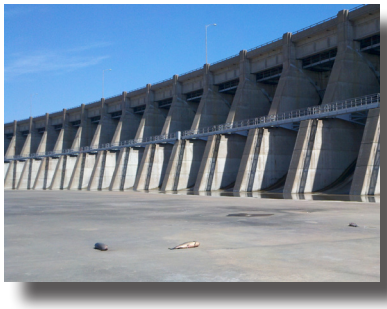
Visit www.BrockWhite.com/AquaBlokPONDSEAL for more information.

FEATURED PROJECT

Garrison Dam
Riverdale, ND

BW PRODUCTS USED: BASF 10-61 Repair Mortar
CONTRACTOR: Maertens-Brenny Construction
ARCHITECT & ENGINEER: Army Corps of Engineers

The goal of this project was to fix spall areas to make sure the water runs smoothly with no turbulance. The bad spots had to be removed down to sound concrete. Then exposed rebar was coated with primer and the spots were filled with 10-61.



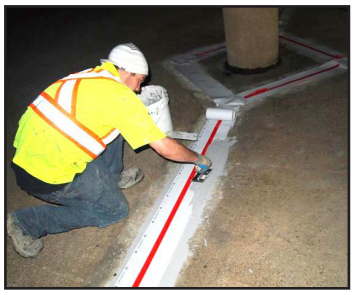
At the time of the project the water elevation of the dam was 1853.6 with a gate elevation at 1854. With only 6 inches of water storage left before it was to go over the spillway, time was of the essence.

FEATURED PROJECT

Kersland Reservoir
Queen Elizabeth Park, B.C.

BW PRODUCTS USED: Sikadur Combiflex, Sikadur 31 Gel
CONTRACTOR: JFR Concrete Repair

The Kersland Reservoir, a 17 million gallon reservoir servicing Richmond, BC, was built in 1955. The original Sika I Gas joint sealant had failed and the reservoir was losing significant amounts of water.



The repair plan initially consisted of using a combination of urethane injection, Sikadur Combiflex and a majority of Sikaflex 2c. But it was felt that removal of the old Sika I Gas joint sealant and the prepping of the joints to receive the Sikaflex 2c would take too long and could not be done within the time frame required in order to put the reservoir back in service. It was decided to leave the Sika I Gas joint sealant in place and bridge all the 12,500 lin ft of joints with the Sikadur Combiflex system. Surface prep for the Sikadur Combiflex system included scraping and grinding both sides of the joint.

Installation: **A)** All joints in the Sikadur Combiflex are hot air heat welded. **B)** A bed of Sikadur 31 Gel (NSF grade, for potable water) is put down on both sides of the joint. **C)** Sikadur Combiflex is applied, centred on the joint, a roller is used to insure full contact and adhesion. **D)** A second layer of Sikadur 31 is applied encapsulating both sides of the joint **E)** The red indicator stripe is removed.

Metro Vancouver is monitoring the project pretty closely, as they are looking at doing this in two other reservoirs (one smaller and one larger), the project was completed three days ahead of schedule.

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BW How-To

GARAGE FLOOR COATINGS: ON GRADE VS. ABOVE GRADE

There are a number of different factors to consider when selecting a floor coating system. Here, we compare and contrast two garage floor applications, one on grade, one above grade.

Note: This information is not intended to supersede information found in the manufacturer's technical data sheets, which should always be read and followed in the application of any of the below materials.**

To begin, for both applications, the concrete should be shot blasted to a similar profile of 80-100 grit sand paper (also known as ICRI CSP-3). Manufacturers require a shot blasted surface – acid etching or grinding will not suffice. These coatings require a clean, solid, dry substrate. Contaminates like oil stains should be removed prior to application.

The grade of your slab will then determine the type of coating system to use:

On Grade: Epoxy Coating topped with a Urethane.

Epoxies are less sensitive to moisture and have greater adhesion when compared to urethanes. A urethane top coat in this application prevents the epoxy from being damaged by UV light.

1) Begin with BASF High Build Primer mixed with the desired epoxy color, squeegee and roller applied. The High Build Primer's coverage is 100 SF / gallon.

2) Unimin 2095 Sand, broadcast at 12 lbs. per 100 SF, back-rolled into the High Build Primer. The use of sand adds to the wear ability as well as making this a better non-slip surface.

3) Sikafloor 340, squeegee and roller applied as a clear finish coat, should the floor require a UV-resistant coating. Coverage is 375 SF / gallon.

Above Grade: Urethane Coating.

Urethanes provide flexible waterproof layers where the threat of ground moisture isn't present.

1) BASF Sonoguard Base Coat, squeegee and roller applied and allowed to dry. Coverage is 60 SF / gallon. The above grade coating provides a traffic bearing waterproofing system that will also protect the area below the slab.

2a) BASF Sonoguard Top Coat, squeegee and roller applied with Unimin 2095 Sand back rolled into it. Coverage for the Top Coat is 80 SF / gallon. BASF Sonoguard Top Coat is stocked by BW in Gray, but is also available as special order in charcoal or tan.

OR

2b) BASF Sonoguard Tint Base Top Coat may be used for surfaces intended for PEDESTRIAN TRAFFIC ONLY. Coverage is 80 SF / gallon. This product allows for colors with the addition of NP-2 Color Packs. Squeegee and roller applied with Unimin 2095 Sand back rolled into it.

When Should Floor Coatings Be Avoided?

The presence of moisture should be the major factor when considering a floor coating. Epoxies and Urethanes are not breathable coatings. Excessive water vapor drives up through slab on-grade surfaces which have an epoxy and/or urethane coating, and is not allowed to escape. This trapped vapor drive has the potential to cause surface damage to a slab's surface by way of "pop-outs". Unless it is known that there is a vapor barrier underneath a concrete slab on-grade, it is always best to do a surface moisture test on the slab before proceeding.

Visit www.BrockWhite.com/BWHowTo for more information.

UPDATE FROM THE CEO

The global economy is slowly recovering from cyclical lows, but growth has lagged most other recoveries on persistent public sector deficits that have depressed business and consumer confidence and slowed private sector job growth. We are also seeing significant price inflation in our polypropylene, polyethylene, and rubber based products, which along with higher fuel prices, has pushed up construction product costs in slow markets.

Luckily, western Canada construction markets have been relatively strong (especially compared to some of our US branch areas). This has enabled us to continue to invest in the people, products and infrastructure that it takes to Help Build Your Success by being both Your Source for construction materials and Your Resource for the know-how and problem solving that comes from 57 years of construction industry experience.

We have undertaken a number of programs in 2011 in order to serve you better including:

- Adding shingle roofing products into our Winnipeg, MB office.
- Adding tilt up concrete accessories, rentals, and masonry products into our Vancouver, BC offices
- Working to get ISO registrations in a number of Canadian offices
- Combining our two Calgary operations into one larger facility
- Improved and expanded project bidding capabilities to our US customers
- Launching a full range of roofing products into Northern Alberta
- Adding new offices in Appleton and Wausau, Wisconsin
- Adding new sales reps in a number of our US and Canada locations
- Installing Shoretel phone systems designed to improve customer service into almost all branches

We stock a wide range of products including geotextiles, erosion control, concrete and masonry chemicals, concrete and masonry accessories, concrete repair products, insulated concrete form systems, EIFS systems, brick, Cultured Stone, natural stone, fireplaces, highway restoration products, waterproofing, insulation, roofing, cladding and much, much more. We now have 24 locations across the upper Midwest United States and the western half of Canada to serve you. Our website provides new and improved access to your specific customer information along with product information and updates regarding upcoming activities and events.

Thank you for your past business and we look forward to serving you in the future. As always, tell us how we're doing – we need your feedback to do the best possible job. Call or write or e-mail me at rgarland@brockwhite.com.

Sincerely,

Richard Garland
CEO

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