

## What's new at FBS?



### NEW PRODUCT CATALOGUE OUT NOW

Our new product catalogue has just arrived hot off the press.

Inside you will find descriptions of the majority of the products we produce and supply along with brief application and coverage information. Products include: concrete coatings, precast and site chemicals, repair and fabrication epoxies,

liquid epoxies, waterstops and joint fillers, crystalline waterproofing systems and concrete admixtures, plus fibre reinforcement systems.

If you would like a copy, please call us on 0800 835 699 or email [info@fbsltd.co.nz](mailto:info@fbsltd.co.nz).

### FBS SPREADS ITS WINGS



Fraser Brown and Stratmore has recently opened a branch in Nelson, located at 11b Pascoe Street, Tahunanui.

Rob Willems, Regional Manager for FBS Southern Region, has been integral to the opening of the branch, thanks to his knowledge of the region and relationships with our clients.

"I thought it would be a great idea to have a presence in Nelson so our products are closer to the customers," says Rob.

"We will be selling our own products, for example epoxies, retarders, release agents, fibres and KIM as well as others we don't produce ourselves - readimix colours, grouts, GIB stopping products and lots more."

We look forward to seeing you there if you are passing.



## No soggy pizzas, thanks to FBS

When Brent Harley decided to start manufacturing wood-fired outdoor pizza ovens, he knew he'd have some unique issues to overcome if he was to create an oven that could stay hot and dry and stand up to the elements.

"Pizza ovens are really sensitive to water and the fire needs a dry environment, so we needed a solution that would keep the inside of the oven dry even when it was rained on," says Brent Harley, owner of the Petone-based Piazza Pizza Ovens. "The hearth alone can soak up several buckets of water into the concrete and once that moisture gets into the oven, you end up with a soggy, steamed pizza."

Brent approached us at the beginning of development, and we worked with him to develop a solution that would ensure the pizza ovens were waterproof and able to retain heat.

"Craig from FBS was instrumental in the development of the pizza ovens," says Brent. "I was very impressed with his concrete and structure knowledge. He got it right very early on, which saved us a lot of time and effort."

"I'm not exactly a pizza oven expert," says Craig. "But when it comes down to working with concrete, the same principles and theory apply right across the board."

Craig recommended a combination of Fibermesh, Cembinder and superplasticiser for the dome of the oven. The Fibermesh and Cembinder products provide the strength and the superplasticiser is added to bring the mix back to a workable state. In addition to this, Craig recommended the use of KIM (Krystol Internal Membrane) for the entire structure (dome and base). KIM's unique crystal-forming additive ensures the concrete is waterproofed from the inside out.

"All of our ovens are handmade - not cast - so the concrete needs to be workable," says Brent. "The superplasticiser has been the perfect solution to keep the concrete in a workable state. And as for KIM, its ability to penetrate right through the concrete has provided us with a long-term waterproofing solution."



# Stuck for a solution? We can help!

## SAME DAY SEALER

Laying driveways, patios and paths is a precision job that requires a smooth, clean finish and there's not always enough time to seal the concrete before it becomes contaminated with dust, debris, footprints and other foreign matter.

Fraser Brown and Stratmore has developed a one-coat, solvent-based acrylic sealer, which can be applied to 'green' concrete after 24 hours and saves the stress of a hard day's job being ruined by debris or a careless work boot.



"We've tested it with a business in Hawkes Bay and so far the client is really happy with the result," says Craig Meiklejohn, Business Development Manager at FBS.

Some other sealers can't be applied until the concrete is more completely cured, which means waiting 14 to 28 days before application. Applying these products too quickly risks 'blooming' - a result of the sealer not bonding to the concrete surface.

Using Same Day Sealer on 'green' concrete means that the sealer can be applied soon after the finishing of the concrete, and Same Day Sealer helps to retain moisture in the concrete, aiding curing.

Once the Same Day Sealer is applied and dried, you can walk and drive on it, or spill things like oil or red wine on it, and it will prevent contamination of the concrete. It's UV stable, so it won't discolour over time. For a higher sheen, simply apply another coat after seven days.

## EPAR 733 & EPAR IMPREG

FBS has recently been working with Ben Wilkinson, Joint Managing Director at Jetco, to fix decaying sewerage tanks and re-line sewerage pipes for the Marlborough District Council.

"The decay in the tanks is caused by a combination of sewage, hydrogen sulphide and carbon monoxide that slowly eats into the concrete over the years," says Ben. "I had worked with John at Fraser Brown and Stratmore in the past so approached him to see if he could help."

FBS recommended that Ben use EPAR 733,

a chemically resistant epoxy system that can be applied in one to two coats and used for waste water and sewerage applications.

The next task at hand was to re-line the sewerage pipes for the Council and Ben did this using EPAR IMPREG, another epoxy system. Ben applies this epoxy using the equivalent of a very long felt sock.

The sock, which can be many metres long, is impregnated with EPAR IMPREG and then a bladder is inserted through the middle of it. After pushing the sock and bladder down the pipe, the bladder is filled with hot water, which pushes the EPAR IMPREG up against the walls and the curing process begins.

*EPAR IMPREG has a very long pot life of many hours, ensuring it does not start to cure before the sock is in position.*

## Fracure Wax Emulsion

Fracure Wax Emulsion is a curing compound for all exterior or interior concrete surfaces including pavements, slabs, parking areas, forecourts, etc, that are not to be subsequently overcoated. Fracure Wax Emulsion exceeds ASTM-C-309-97 and NZS 3109 when applied at 5m<sup>2</sup> per litre.

An example of the application of this product is the construction of the new rail link between the Ports of Auckland and the Wiri Inland Port alongside the main trunk railway link through Manukau.

Denis Marra, FBS Northern Regional Sales Manager, worked with Wally Needham from Brian Perry Civil to develop the best solution for concrete curing and recommended a combination of ER-921 Antivap retarder and Fracure Wax Emulsion.

"It's hot and windy down there and if you don't cure the concrete properly you run the risk of it cracking," says Denis. "Using an Antivap and Fracure ensures the concrete is cured minimising the risk of cracking."

To find out more about Fracure Wax Emulsion and ER-921 Evaporation Retarder, give us a call on 0800 835 699 or email [info@fbsltd.co.nz](mailto:info@fbsltd.co.nz).

## Plasticast E Liquid Epoxy

Plasticast E is a clear, liquid epoxy that is a transparent amber colour when cured. It is a slightly flexible epoxy used to encapsulate motor windings, electrical cables, circuit boards and electronic equipment.

Seahorse Electric Kontikis are a great example of how this product can be used to great effect.

"We make about 1,000 kontikis (an electric longline fishing system) each year," explains Benn Scherer, Operations Manager at Seahorse.

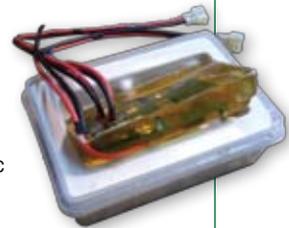
One major part of the construction process is to ensure that the electronics of the kontiki are watertight.

"If someone forgets to put the hatch down on the console and water gets in, the electronics will be destroyed in seconds," says Benn. "Even salty air can cause damage over time."

To overcome this, Benn has been using Plasticast E electrical encapsulation epoxy to fully encase the electronic circuits to protect them from the elements.

"We've been using it from day one and it does the job nicely," says Benn. "I sit the electronic circuit board in a silicon mould, pour over the epoxy and place it in a thermostat-controlled room to keep the temperature just right so that it doesn't harden too quickly and cause cracks. After about 3-4 hours it's hardened and ready to go."

To find out more about Plasticast E, give us a call on 0800 835 699 or email [info@fbsltd.co.nz](mailto:info@fbsltd.co.nz).



## FRASER BROWN & STRATMORE LTD

Products for concrete and construction

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