

There's an a.b.e general construction product for everyone

The South African building industry – whether major contractors or home improvers – has over the past seven decades learnt to rely on a.b.e Construction Chemicals' tried and trusted range of General Construction products.

The company's General Construction range includes products for grouting, adhesion, coating, sealing and "waterstopping".

Grouting products such as duragrout (cementitious) and epidermix (epoxy) are just as effective on dry land as in wet conditions such as underwater quay sides. Adhesives produced by a.b.e. can bond most materials in the world today – the range includes synthetic resins, as well as bitumen- and neoprene-based products with brand names such as bitubond, bitugrip, epidermix, plastergrip and quickgrip.

a.b.e. coatings cover as diverse applications as coating automotive underbodies to waterproofing major tunnels with products such as autokote, brixéal, ravenol and duracoat to the fore.

Then there are waterstops such as the extensive durajoint range for expansion and construction joints, and sealing joints in reservoirs, dams and canals to add to an already formidable list.

a.b.e. Construction Chemicals is one of few South African companies which has managed to operate successfully for 70 years. During that time, it has become synonymous with top quality in General Construction products.

For more information: phone Elrene Smuts on 011-306 9000 or visit www.abe.co.za

a.b.e. Products for Randfontein Silo Repairs

a.b.e. Construction Chemicals is currently supplying the products for the repair of the Tiger Milling Inland Division silo in Randfontein.

Theunis Marais, a.b.e. Regional Sales Manager (Construction), says the maize silo repair, handled by Delmos Projects, will initially involve wire brushing of the concrete steel reinforcement and then applying a coating of a.b.e.'s durarep ZR primer. "This is a single-component liquid epoxy resin, enriched with metallic zinc to provide excellent corrosion protection. durarep ZR primer actively resists corrosion in the repair area and avoids the generation of incipient anodes in adjacent areas," Marais stated.

After the priming, a.b.e.'s epidermix 344 wet-to-dry epoxy will be applied as bonding agent with the company's durarep FMC subsequently used as structural repair mortar.

"epidermix 344 is a two-component, solvent-free epoxy adhesive. If applied on to reinforcing steel, the product causes no loss of concrete/steel bond strength," he explained. "durarep FMC is a shrinkage compensated, fluid micro-concrete grout which can be applied by pouring or pumping. It is non-toxic and chloride-free and ideal for silo or water cooling tower repairs.

"Finally, a.b.e. silocoat will be applied over 30 000sq m of the silos. silocoat is a two-component polymer-modified cementitious coating which cures to form an impermeable membrane. The product has been designed to be easily mixed on site, using a slow speed drill and paddle, and then applied to the silo substrate with a brush, roller or spray."

Marais said the Randfontein silo repair project would take eight months to complete.



Work in progress on the silo repair project in Randfontein.

a.b.e. Water repellent for new KZN pavilion

A superior water repellent manufactured by a.b.e. Construction Chemicals was applied to the concrete seats of a new pavilion at the Harry Gwala Stadium in Pietermaritzburg.



A water repellent produced by a.b.e. Construction Chemicals was used to seal the concrete surfaces of a new pavilion at the Harry Gwala Stadium in Pietermaritzburg.

The multi-use stadium in the KZN capital is being upgraded and expanded to serve as home base for one of the overseas teams competing in the 2010 Soccer World Cup.

Deon de Kock, Technical Sales Consultant of a.b.e.'s Construction division in KZN, says two coats of the company's water repellent, durasil SH, was sprayed on about 18 000sq m of the concrete surfaces of the pavilion by the contractor, Armstrong Construction, to prolong the stand's lifespan. "There was a need for a clear concrete finish on the stand with no risk of future discolouration or staining, so durasil SH was the ideal product," de Kock stated.

durasil SH is a single component, clear, penetrating and breathable water repellent for use on exterior concrete, brick, masonry and natural stone to provide a hydrophobic surface to the pore structure. "The water repellent is effective on old and new structures, and inhibits penetration of soot and grime, and can easily be applied by brush or spray. It preserves the natural colouring and texture of the treated surface and reduces the risk of efflorescence," he added.

The water repellent – which contains a water-based emulsion of silane/siloxane - allows water vapour to migrate from the surface of the concrete and also reduces chloride intrusion.

durasil SH was specified for the Harry Gwala Stadium pavilion by Andrew Leibnitz of SNA Civil & Development Engineers.

Variety of Gautrain applications for a.b.e. products

a.b.e. Construction Chemicals is supplying a wide range of products for concrete repairs, waterproofing and grouting for the Gautrain project.



a.b.e. Construction Chemicals General Construction products, durarep FR and durarep FC, are being used for concrete repairwork on Gautrain viaduct cable trenches.

Rens Pelser, Technical Sales Consultant for a.b.e. in Boksburg, says the company's durarep FR and FC are being used for patch repair work on cable trenches on Gautrain's Viaduct 13 at Modderfontein.

"durarep FR is a fibre-reinforced structural repair mortar, ideal for repairing voids and honeycombed concrete areas. It is a single component, high-strength mortar that provides high ultimate strength and excellent bonding to concrete. durarep FC, on the other hand, is a cementitious coating that provides a fair-faced finish to concrete and masonry," Pelser explained.

a.b.e.'s durajoint PVC waterstop is being used on the expansion joints at "cut and cover" operations at the Gautrain N3 North station behind Linbro Park. Cut and cover is a construction method for small tunnels where a trench is excavated and then roofed over. "durajoint PVC range is extruded from specially formulated PVC material which is flexible and easily welded on site to provide the primary seal for waterproofing," he added.

For Gautrain platform grouting, a.b.e.'s epidermix 324 has been specified. This is a flowable, silica-filled epoxy grout with high strength gap-filling capacity, while the company's epidermix 396 is being used for grouting dowels horizontally into the concrete wall face. "The epoxy paste grouting compound is a two-component product that provides higher strength than the surrounding concrete and steel. It will not drain from holes into which it has been grouted," Pelser added.

a.b.e. Waterstop for Gaborone wastewater project

a.b.e. Construction Chemicals' durajoint PVC waterstop was used to seal the external expansion and construction joints during the upgrading of the Gaborone wastewater treatment project.

Rens Pelser, Technical Sales Consultant for a.b.e. in Boksburg, says the product was widely applied to provide waterproofing for the project completed recently for the people of Botswana by the Chinese company, China Jiangsu International.

"Extruded from specially formulated PVC material, the durajoint PVC range can be easily welded on site to provide the primary seal in the waterproofing of water-retaining structures. The product is ideal for sealing expansion joint sections and construction joints. It prevents liquid seepage through these joints in any water-retaining structure," Pelser stated.

China Jiangsu International has been a major benefactor to Botswana, providing the likes of sanitation projects, schools, and houses in recent years.



a.b.e.'s durajoint PVC waterstop was used to seal the joints during the upgrading of the Gaborone wastewater treatment project.

The best products to "GRANDSTAND" with.



With outstanding durability and versatility, our product technology provides a complete and fully integrated range of products for use in a comprehensive variety of applications.

The a.b.e. range of products has for many years been the answer to concrete and masonry problems on structures such as bridges, buildings, silo's and soccer stadia.

With the advent of the 2010 World Cup we have been given the perfect opportunity to "Grandstand" our industry leading products on some of the most beautiful state of the art stadiums in the world.

Together with our expertise we can help you complete that perfect building project every time.



www.abe.co.za

Durban • Johannesburg • Cape Town • Port Elizabeth • East London • Bloemfontein • George

a.b.e. Construction Chemicals Limited