



SPECIALIST CEMENTITIOUS PRODUCTS

SHIELD

Description: MasterMix Shield is a high performance coating system based on recycled glass for water and waste water treatment plant repairs. It can be used on most stable substrates including concrete, brick, block work, and steel.

Applications: MasterMix Shield will form a hard wearing durable top coat over most substrates, which require a waterproof coating that is inert and acid free. MasterMix Shield can be applied to walls, ceilings, and floors. Typical applications are coatings to waste water plants, pump stations, and water treatment plants.

Performance: The adhesion strength of MasterMix Shield is better than 2.00N/mm², on brick work, concrete, and steel. The compressive strength is better than 20Mpa whilst still remaining flexible. An application of 2-5mm of MasterMix Shield will provide a durable waterproof coating that is acid and alkali resistant.

Conditions: Each application of MasterMix Shield will take approx 30 mins to become tacky at an ambient temperature of 16°C and cured in 3 to 4 hours. Temperature, humidity, and water content will affect these times. MasterMix Shield should not be applied in temperatures below 7°C.

Tests: Independent laboratory tests show that the adhesion tensile strength of MasterMix Shield is better than 2.00N/mm² on concrete and steel. Compressive strength is better than 20Mpa. These tests were carried out in Sulphuric, Hydrochloric, Lactic acids, and Caustic soda. Compressive strength tested to ISO: 13007. MasterMix Shield has also been successfully tested and conforms to AS/NZS 4020:2005 Products in contact with drinking water. Should further information be required, please contact our Technical Department for a full copy of the test report.



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Health and Safety: MasterMix Shield is a cement based product and contains no additional aggressive Products. See packaging for full details or contact our Technical Department for further details. Whilst MasterMix Shield does not emit any obnoxious gases it would be prudent to ensure that adequate ventilation is provided when applying in confined spaces, such as tanks.

Directions for use: The substrate must be clean, free from dirt, grease, loose materials, and any foreign matter. MasterMix Shield must be mixed with clean potable water and applied by spray unit suitable for cementitious based products to a thickness of 2-5mm. This may need to be achieved in 2 coats. Additional coats are to be applied 3 to 4 hours after the previous coat, subject to drying conditions.

Packaging: MasterMix Shield is packaged in 10ltr and 20ltr plastic pails. When applying at 3mm thick a 10 Ltr pail will achieve 10m² coverage (approx). The shelf life is 6 months when kept in cool and dry conditions in the original container with the lid on.

Warranty: A warranty may be offered, subject to strict conditions. Each project will be assessed on its own merits and must be applied by a MasterMix approved applicator. However as an indication of the longevity of the product, accelerated tests have shown that in a sewer environment with levels of pH3.5 the life expectancy would be better than 50 years.

Disclaimer: Although the technical details and recommendations contained in this document correspond to the best of our knowledge and experience, all the above information must in every case be taken as indicative and subjected to confirmation after long practical applications. For this reason, anyone who intends to use the products must ensure, before hand, that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.



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