

An enhanced fibre-cement blend to be mixed with a solution of FlexBond (a liquid additive), for the saturation and impregnation of CemForce and CemLam forming a reinforced, vapour-proof product of about 4 to 8 mm in thickness.

Purpose

For creating a thin, reinforced, waterproof cement lining to be applied directly onto hard compacted soil, the inner surface of old, cracked reservoirs etc... For the cost-effective creation of any water-containing structure.

Application

The creation of fish ponds, water channels, dams, relining of pipes, repair of old cracked reservoirs as well as flat roof waterproofing.

Types

Ready to use by the addition of FlexBond solution only.

Advantages

Thin cement linings can now be formed in-situ with the help of the reinforcing of as many layers of CemForce as is necessary for any given strength required. Not only waterproof, but vapour-proof as well.

Limitations

Will not stick to plastic, rubber or gypsum plaster. Do not use if freezing conditions are expected within 24 hours. Could use a two-pack epoxy to bond and seal between cured MatCrete and other materials.

Site Work

Storage

Keep bags off the floor on slats in a dry place. Expected shelf life under dry conditions is 6 months. FlexBond: Store in a dry shed protected from freezing for 12 months. Stir well from the bottom if storage is prolonged.

Weather

Protect work from rain for 12 hours and frost for 24 hours.

Surface Preparation

The ground over which material is to be used should be well compacted and in most cases a 100 mm layer to be a soil/cement mixture of about 1 volume cement, 9 volumes soil, well compacted and damped with water.

Mixing

Dilute one volume FlexBond with four volumes clean water and use this solution to mix MatCrete until you achieve a sloppy plaster consistency.

Application

Option 1

Lay out the first layer of CemLam, plastic down, over well compacted soil. Apply a liberal coat of MatCrete /FlexBond mixture over woven side about 200 mm wide over all joints and laps. Then: apply 200 mm wide CemForce strips into the wet MatCrete along the joint lines as additional reinforcing in the areas and work material into fibres. Now liberally coat the rest of the CemLam and lay a sheet of CemForce into the wet MatCrete, but in a perpendicular direction to the CemLam fibres. Overcoat this with MatCrete / FlexBond mixture making sure that the CemForce is fully saturated and covered.

If extra strength is required, more layers of CemForce can be applied in the same manner. All work to receive a final coat of MatCrete/ FlexBond mixture.

Tip: Measure out all material before application starts.

Option 2

When applying the MatCrete system to existing structures, omit the CemLam and use two layers of CemForce. Apply a liberal coat of MatCrete slurry to the structure into which the first layer of MatCrete is imbedded. Then complete the application process as above.

Curing

Allow finished work to air cure for five days before filling with water.

Coverage

Flexbond: Approx. 2 litres per 40 kg bag of MatCrete.

MatCrete: Approx. 6 m² per 40 kg bag depending on thickness of final work.

CemForce: Allow 10% for overlaps and joints.

CemLam: Need not allow for joints, but allow narrow 200 mm strips of CemForce for the joints.

Packaging

Flexbond: 1 litre, 5 litre and 20 litre plastic drums.

MatCrete: 40 kg bags.

CemForce: 1 m width; any length

CemLam: 1,6 m widths any length

Note:

If fish or plant life is to be put back into the pond, the water should be circulated through the necessary filters and UV lights for at least 7 to 10 days. Once this has been done, the water should be tested before fish or plants are introduced back into the water.

Note: The information presented is intended guide only and is correct to the best of our knowledge at the time of publication. It should not be considered as a definitive approval for suitability for a particular purpose. Please contact the manufacturer, distributor or approved applicator for confirmation of suitability. Ancillary detailing recommendations are provided in good faith to assist in achieving final waterproof result. We accept no liability for those recommendations or those products performance in use.