

SEALMAC



®

Dam Lining System



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This economical easy-to-apply dam lining system is the answer to all your water retaining requirements. Constructed using Sealmac and impregnated with 3 coats of a mineral-filled latex emulsion sealing compound, it provides a robust, highly elastic bitumen coating that is nontoxic and impervious to water.

It can be used to line new or existing water retaining structures including earth irrigation dams, oxidation ponds, water features, concrete reservoirs and canals.

Where is it used



- Earth irrigation dams
- Concrete reservoirs
- Oxidation and maturation ponds
- Mining and industrial waste dams
- Concrete and earth canals
- Animal drinking troughs
- Aquaculture ponds
- Flat roofs
- Water features and decorative fishponds
- Raw water storage dams

Benefits of the system

- Low cost
- Robust, high puncture resistance
- Long life expectancy
- No tainting or toxicity imparted to water
- Easy, effective, flexible, mouldable around any features
- Install by hand using brooms
- Employment of unskilled labour
- Applied at ambient temperatures
- No expensive plant required
- Simple control procedures to ensure quality
- Not dangerously slippery when wet
- Very easy to maintain and/or repair
- High resistance to effluents, acids & UV
- Acid resistance: unaffected by 30% sulphuric acid at 25°C
- UV resistance: greater than 500 hrs in SABS "weatherometer".



Installation Guidelines

Preparation:

Shape and compact earth surface.

Remove any vegetation, stones, sharp objects, etc.

- In areas of a high water table install a subsurface drainage network.
- Sprinkle a granular slow-release herbicide over entire surface.
- Excavate 300 mm x 300 mm anchor trench around dam perimeter.
- Place Sealmac starting with the end of a roll in anchor trench at midpoint of the embankment. Unroll to opposite trench, allowing Sealmac to drape loosely over site.
- Continue Sealmac installation, overlapping joints by 200 mm - 250 mm. Remove any creases at joint intervals.

Joints:

- Seal joints by applying an undiluted heavy coat of sealing compound to the lower overlap.
- Immediately press down upper overlap and wait to dry. After all joints have been done do second undiluted application over the whole joint.



Lining

- First coat: Impregnate Sealmac with sealing compound (diluted 50/50 with water) at a rate of 1,6 l/m². Allow approximately 6-8 hrs to dry.
- Second coat: Apply undiluted sealing compound at 1 l/m² and allow 6-8 hrs to dry.
- Final coat: repeat as for second coat and allow to cure for 72 hrs before filling with water.

A layer of washed river gravel can be applied to the wet surface at this stage to achieve a natural stone finish. Clean tools with water while still wet or paraffin if dry. Although tested to 15 m head a maximum depth of 5 m is recommended. Embankment slopes should not exceed 1 : 2.



DISCLAIMER: The application, handling and conditions of use of our products are critical and beyond our control. Information given by us in our documentation or orally, or by any employee or agent and any advice, recommendation or assistance, is given in good faith but without creating any obligation or warranty.

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Material:	Nonwoven continuous filament double needlepunched polyester
Thickness:	1,4 mm under 2 kPa
Tensile Strength:	8 kN minimum
Elongation:	Greater than 50%
Penetration Load:	1,5 kN
Bitumen Retention:	1,4 l/m ²
Roll Sizes:	5,3 m x 150 m
Bitumen Sealing Compound:	Refer to Suppliers