

PRODUCTS: CRETESAFE B-250

APPLICATION: IRRIGATION CANAL WATERPROOF LINER

APPLICATOR: LIQUID RUBBER INDUSTRIES SA

LOCATION: South Africa

PROJECT SIZE: 1,250 M<sup>2</sup>                      COMPLETION DATE: 2010

### Project Description

Concrete irrigation canals are prone to cracking and failures at the joints between the concrete sections. The concrete itself must be protected from both sun and water which can damage the surface and lead to deterioration of the concrete. Chemicals such as salts and phosphates often dissolved in the water can attack the concrete. A good quality waterproofing and surface protection barrier prevents these problems.

The properties of Liquid Rubber CreteSafe B-250 which make it an excellent protective membrane for irrigation canals are;

- good adhesion
- flexible to avoid cracking and to bridge cracks in the concrete surface
- low water permeance protects the surface
- not affected by salts or chemicals In the water or soil
- seamless liquid applied system fully adheres to the surface -eliminating any areas where water can get under the membrane
- resists damage from UV sunlight exposure

Step 1: thoroughly clean the surface to be coated with CreteSafe B-250, water brushing to remove any loose scale, dirt, mold or algae

Step 2: repair any cracks and seal all joints between concrete sections, with Liquid Rubber HighBuild S-200

Step 3: apply a thin primer coat on the concrete surface using the part 'A' sided of the Liquid Rubber instant-set CreteSafe B-250, the application rate should not exceed 0.5litre / m<sup>2</sup>. The prime coat is a low viscosity liquid that penetrates into the pores of the concrete sealing and providing a good surface for the CreteSafe B-250 instant-set

Step 4: Spray apply the two part instant-set CreteSafe B-250 using the HVL P 2000. The part 'A' (emulsion) operates at 275psi and the part 'B' accelerator operates at 70psi to give an emulsion to accelerator ratio of 10:1, the ideal ratio to create the waterproof liner. The CreteSafe B-250 application rate should be 3 litres / m<sup>2</sup>.

Step 5: Allow the liner to cure 2-3 days depending on temperature and humidity. Do not begin applying the membrane when rain is expected within this time period.



LIQUID SPRAY APPLIED CRETESAFE B-250



TROWELGRADE B-400 FOR JOINS AND CRACKS



ALLOW 2-3 DAYS CURING TIME BEFORE INTRODUCING WATER

### WATERPROOFING PRODUCTS IN THE SEALROOF LINE INCLUDE:

- CRETESAFE B - 150
- CRETESAFE B - 250
- CRETESAFE T - 300
- CRETESAFE A - 150