

Roller compacted concrete has quickly evolved into a durable, cost effective method of constructing industrial pavements, dams, spillways and other water-control structures. Levelton Consultants Ltd. has over 20 years of experience in the design and construction of RCC for pavements, dams and mass concrete.



### This Experience Includes:

- Project management of RCC pavements
- Geotechnical analysis and thickness design of RCC pavements
- Laboratory qualification of aggregates for RCC
- Mix design studies for RCC, including optimization of cementing materials systems
- Laboratory analysis and testing of RCC properties, including compressive and flexural strength, consistency, density, creep and shrinkage
- Quality control and materials testing during construction of RCC
- Assessment of thermal properties of RCC mixes, including adiabatic temperature curves, coefficient of thermal expansion, specific heat, thermal diffusivity

### Levelton's RCC project experience includes:

- Pavements for log sorting yards, municipal streets, airfields, warehouse floors, and highways
- Mass concrete for dams and erosion control projects
- Research and development of specialized RCC systems using high volumes of fly ash and natural pozzolans
- Qualification of unproven aggregate sources for RCC
- Laboratory analysis of thermal properties of RCC mixes

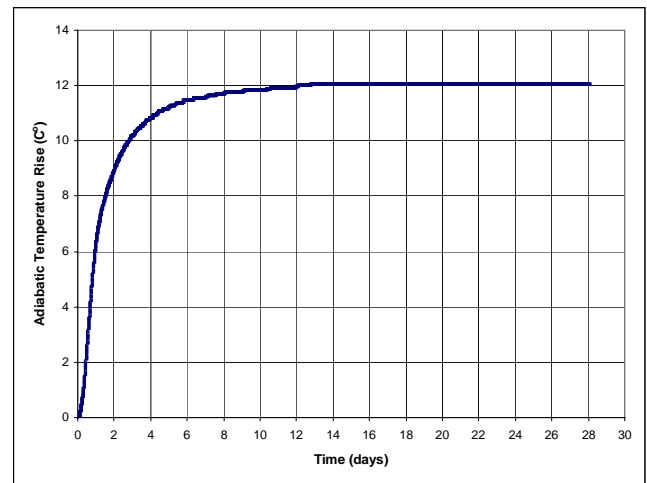


**LEVELTON**

Levelton's construction materials laboratory is fully equipped and experienced in the complete range of aggregate and physical tests necessary for aggregates, cementing materials and RCC mixes. The laboratory is certified to CSA Standard A283, "Qualification Code for Concrete Testing Laboratories", Category II with eight additional endorsements.

### Recently Completed Projects:

- San Vicente Dam, San Diego, CA
- Skins Lake Spillway, Burns Lake, BC
- Cleveland Dam East Abutment, Vancouver, BC
- Third Avenue Extension, Ketchikan, Alaska
- Olivenhain Dam, San Diego, CA
- North Coast Timber, Prince Rupert, BC
- Scotia River Log Sort, Terrace, BC
- Ballantyne Pier Development, Vancouver, BC
- Gibe III Dam, Ethiopia
- Changuinola 1 Hydroelectric Project, Panama



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