



ROLLER-COMPACTED CONCRETE

Roller Compacted Concrete (RCC) pavements have become an increasingly popular alternative to both asphalt and Portland Cement Concrete (PCC) pavements. Industry acceptance of RCC pavements has been fueled by a long history of successful applications in the industrial pavement marketplace, as well as more recent success in roadway applications. RCC pavements were first placed in the 1970s in Canada where industrial applications required surface durability, freeze/thaw resistance, and heavy loading resistance. Developments in equipment, placement methods, design and engineering, and standard specifications over the past three decades have improved RCC pavement quality resulting in its evolving from limited use applications to more general applications.

Interstate Highway Construction, Inc. (IHC) is an award-winning and nationally recognized leader in the promotion and construction of concrete pavements. IHC has four operating divisions specializing in high specification concrete pavements in airfield, industrial and roadway applications throughout the United States. IHC's recognition of RCC's advantages to the construction industry resulted in our acquisition of the equipment, personnel and experience necessary to build the most complex RCC pavements for any application. IHC's experience in the production and placement of RCC pavements includes projects for owners such as the Denver International Airport, and the US Army Corps of Engineers whose specifications and quality standards are the highest in the industry.

For more information on RCC pavements, to have your pavement evaluated for RCC potential, or to request a quote for an RCC application, contact John L. Edwards, VP of Business Development, at 303-790-9100 or jedwards@ihcquality.com. Please visit www.ihcquality.com for additional information regarding our services, history, experience, and markets.



Proud Member:





Features

High flexural strength
(500 to 1000 psi) (3.5 MPa to 6.9 MPa)

High compressive strength
(4000 to 10,000 psi) (28 MPa to 69 MPa)

High Shear Strength

High density, low absorption

Low water content, low water/cement ratio

Aggregate interlock

No steel reinforcing or dowels

No forms or finishing

No formed or sawed joints

Hard, durable, light-colored surface

Benefits

Supports heavy, repetitive loads without failure and spans localized soft subgrade areas, which reduces maintenance costs and down time.

Withstands high concentrated loads and impacts from industrial, military, and mining applications.

Eliminates rutting and subsequent repairs.

Provides excellent durability even under freeze-thaw conditions; eliminates seepage through pavement.

Increases strength, reduces permeability, and enhances durability and resistance to chemical attack.

Provides high shear resistance at joints and uncontrolled cracks to prevent vertical faulting or displacement.

Speeds and simplifies construction, reduces costs.

Speeds construction, reduces cost, minimizes labor.

Speeds construction, reduces cost. (Joints can be sawn into RCC to enhance appearance.)

Resists abrasion, eliminates need for surface course and reduces cost. The light color reduces lighting requirements for parking and storage areas.