

# PAVAMAX<sup>®</sup>

## ROLLER COMPACTED CONCRETE



The image shows a large-scale construction project for a road or parking lot. A white dump truck is dumping concrete into a green PAVAMAX roller compacted concrete machine. An orange roller is compacting the concrete. Several workers in safety gear are visible. The background features a large pile of wood debris and a line of trees under a cloudy sky.

**LAFARGE**  
Building better cities™



Lafarge's Pavamax® roller compacted concrete (RCC) has the durability, strength and longevity of conventional concrete, plus the simplicity, speed of placement and economics of asphalt pavements. It is used where high strength and heavy duty pavements are required. Typical placements include industrial yards, distribution centres and ports.

## DURABLE

### High-Strength, Low Maintenance and Long Service Life

RCC pavement has an expected service life of 25-30 years. It:

- does not rut or shove
- spans soft localized subgrades
- does not degrade from fuel spills or hydraulic fluids
- is not affected by hot or cold weather extremes

## ECONOMICAL

### Low Initial Cost and Minimal Maintenance

Pavamax® has a low initial cost due to the specialized construction method, which is faster and requires fewer workers than traditional concrete. The pavement can be open to traffic within a few days, which minimizes downtime costs. Its durability means you won't get rutting or shoving and the maintenance costs that go along with repairing those issues. RCC products like Pavamax® fare well in lifecycle analysis thanks to high durability and low initial costs.

## SUSTAINABLE

### Uses Less Granular Material Than Asphalt Pavements

RCC requires substantially less granular material than an equivalent asphalt design, which helps limit the consumption of natural resources. RCC's light colour has higher reflectivity than asphalt, which reduces lighting requirements, saving both energy and money. RCC has a lower energy footprint than asphalt pavements and lower energy consumption during construction. Pavamax® can also be formulated to include industrial by-products such as fly ash, ground granulated blast furnace slag (GGBFS) or silica fume; further reducing embodied energy and CO2 emissions associated with RCC. Increased densities, from higher aggregate packing, means less cement is needed to achieve the strength of conventional concrete.

## APPLICATIONS

RCC is an ideal pavement choice when strength, durability, and economy are required. Examples of such applications include:

- intermodal yards
- warehouse facilities
- distribution and trucking facilities
- high truck traffic municipal roadways
- ports
- military facilities
- composting facilities
- recycling facilities
- mining access roads
- sawmill yards
- chip storage yards
- log sorting yards
- snow disposal yards
- parking areas

To find out more, contact a Lafarge Pavamax® specialist today

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