

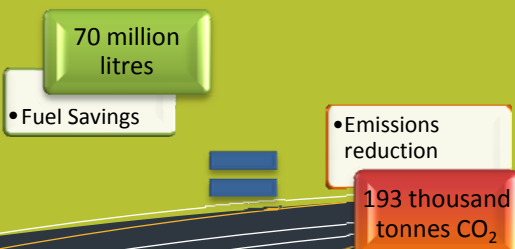
GREEN PAVING

...and concrete



FUEL STUDY – The CAC using the findings from a 2002/06 National Research Council of Canada (NRC) study and 2005 MTO data, presented potential fuel savings and reductions in emissions that could be achieved if a 183 km section of Highway 401 between Toronto and London was paved in concrete.

RESULT: over 70 million litres of diesel saved - we would avoid 193,132 tonnes of carbon dioxide that would have otherwise ended up in our environment.



DO YOUR PAVEMENTS...

Offer reduced energy for construction?

Concrete placed in 1 lift not 2 or 3

Have lower Embodied Primary Energy?

Asphalt Embodied Primary Energy is very high

Reduce fuel consumption with heavy trucks?

NRC study with MTO data (to the left)

Reduce electricity demand?

Higher albedo (reflectivity) means fewer light standards

Reduce use of aggregates?

Up to 50% less aggregate requirements

Reduce Heat Island Effect?

Less sunlight absorbed by concrete pavement

Reduce traffic congestion?

Fewer repairs and detours

Offer a lower first cost?

Let CANPav[®] show you how

Offer a lower Life Cycle Cost?

Proven by MTO and Athena

Is the supply facility ECO Certified?

New RMCAO Environmental Program

Can the product be 100% recycled?

Yes – Immediately

Concrete Asphalt

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70 million litres (fuel savings) = 193,000 tonnes of CO₂ (emissions reduction)

EQUIVALENT TO:



Carbon sequestered by
4,952,103 seedlings grown
for 10 years



Electricity use of **25,580**
homes for one year



8,047,167 propane
cylinders used for home
BBQ's



35,372 passenger vehicles
off the road

References:

(1) March 2007 Cement Association of Canada "Concrete Thinking in Transportation Solutions"

(2) <http://www.epa.gov/solar/energy-resources/calculator.html>