ASSOCIATE MEMBER WEBINAR SERIES – MAPEI







ASSOCIATE MEMBER WEBINAR SERIES – MAPEI







Facilitator

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Housekeeping



- Approximately 40 minute webinar with Q & A at the end, followed by a Kahoot! Pop Quiz
- All participants are muted
- Questions? Use the GoToWebinar 'Questions' Pane
- Webinar will be recorded and posted on the Concrete Ontario website along with a PDF copy of the presentation.
- <u>https://www.rmcao.org/publications/webinar-presentations/</u>





Presenter

Ross Monsour

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Presenter

Yves Brousseau

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9 product lines in North America







CONCRETE ADMIXTURES – NORTH AMERICA

MAPE



MAPEI CANADA ADMIXTURES TEAM

Darren Keith - Bus Dev. Mgr West





Martin Vachon Canadian Product Line Mgr



Yves Brousseau PE - Business Dev. Mgr East



Eric Bedard Ing. M.Sc. - Tech Serv







Ross Monsour - Sales Rep Ontario





MAPEI CANADA ADMIXTURES - Products









Innovative method to recycle returned concrete

Yves Brousseau, P. Eng Business Develpment Manager – Admixtures Canada East Ross Monsour Sales Rep Admixtures - Ontario

RMCAO Presentation & Training





The annual global production of concrete is approximately <u>13 billion</u> cubic meters

1 to 3% of concrete produced does not reach work sites and must be recycled...

...which represents 600 million tons to recycle!

Different methods are available to concrete producers























The choice of the optimal method depends on several criteria:

- Employee availability
- Space availability
- Complexity of implementation
- Environmental rules
- Annual volumes to treat
- Capital required \$\$





A new method is now available...

RE-CONZEIØEVO

REturned CONcrete with ZERO impact on environment

Int. Patent WO 2012/084716





Re-Con Zero Evo

- Turn fresh concrete into reusable aggregates:
- 1. Substitution for fill materials (MR-2)
- 2. Partial substitution of aggregates used in new concrete production





Re-Con Zero Evo





- 2 components to be added
- 3 to 4 minutes mixing



Mixing is done by the mixer truck









Using a Ready Mix truck

 Recycled concrete must be reworked in the first <u>24</u> <u>hours</u>



Mixing in a pond







Mixing in stock piles







Aggregate characteristics







Concrete properties





Concrete properties







CONCRETE	M I X	Dos. Eff. (kg/m³)	H ₂ O	W/ C	M.V. (kg/m ³)	Air (%)	C _{strength} (MPa)			
)os. Cem. 300 kg/m ³							1g	3gg	7gg	28gg
Gravel/ Sand 52.5/47.5	R	307	197	0.64	2322	1.7	12.1	23.4	28.4	34.4
	Α	303	212	0.70	2307	1.7	12.4	22.4	27.7	33.3
	В	294	226	0.77	2262	2.0	12.1	21.6	26.2	32.2
Slump 190 mm	С	284	244	0.86	2207	2.8	10.6	19.2	24.1	31.2
	D	274	255	0.93	2148	3.5	9.4	17.4	22.8	29.0
	Е	262	267	1.00	2061	5.0	8.4	15.8	21.1	27.7





ECON®

NON-STRUCTURAL CONCRETE, MINIMAL ENVIRONMENTAL FOOTPRINT













ADHESIVES · SEALANTS · CHEMICAL PRODUCTS FOR BUILDING

Thank you!

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Questions?







Concrete Ontario Pop Quiz

Please use your smart phone to access the following website:

www.kahoot.it

- Please enter the Game "Pin" that will be shown on the screen shortly
- Enter both your email address (so we can send you a prize if you finish in the top three) and your "Nick Name" (please think of your HR department and don't use something you will regret!)
- The faster you answer each question the more points you can earn for correct answers







Concrete Ontario Pop Quiz

Amazon Gift Cards for Today's Competition

- First Place = \$150
- Second Place = \$100
- Third Place = \$50









Next Webinar

 Join us on December 9th, 2021 at 10:00 am – 11:00 am

RoadKing - Associate
Member Webinar Presentation







Thank you!





