

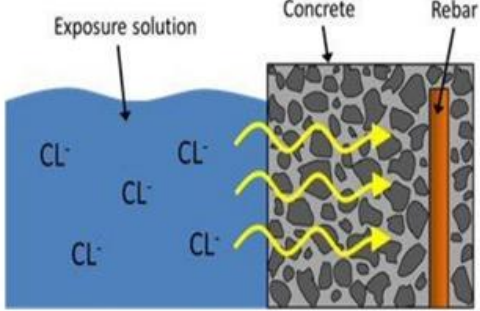


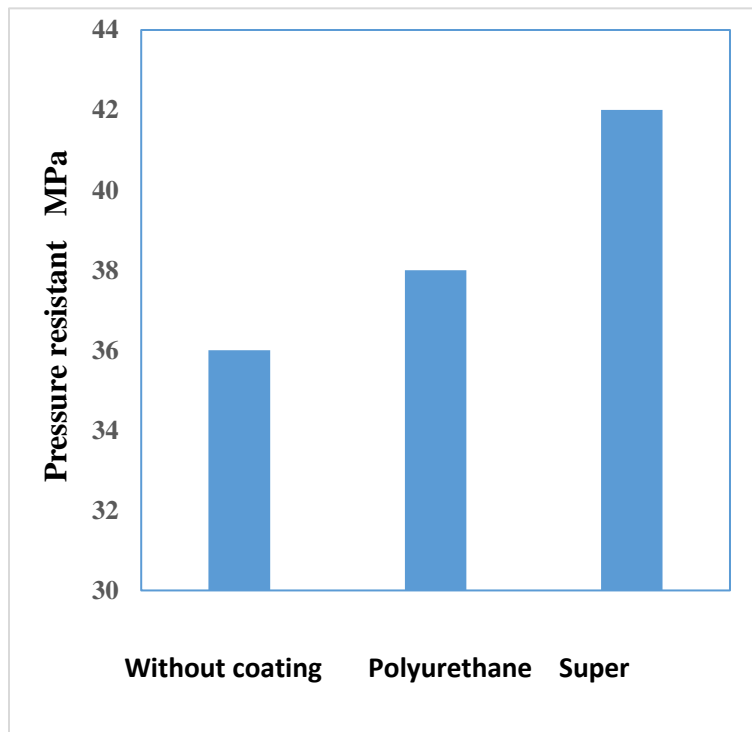
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**Superhydrophobic Coatings for
Reinforced concretes and Cement outdoor walls**



The Corrosion of reinforced concrete and degradation of cement outdoor walls is a main problem in construction and power industry. The cost of repair is too much. Superhydrophobic coating can reduce the accumulation of dust and water on the surface and reduce the water absorption and the corrosion considerably.

<p style="text-align: center;">Ion chlorine absorption (ASTM C1202)</p> <p style="text-align: center;">(Coulombs)</p>	
<p style="text-align: center;">46</p>	<p style="text-align: center;">Superhydrophobic coating</p>
<p style="text-align: center;">850</p>	<p style="text-align: center;">Polyurethane coating</p>
<p style="text-align: center;">2760</p>	<p style="text-align: center;">Without coating</p>





The polyurethane superhydrophobic coating has two components that should be mixed together before applying on the surface. It can be applied by brush, rolls and spray gun. The coating will be cured in room temperature after 12 hours. The coating was confirmed by York University in Canada.



York University
CONFIDENTIAL INVENTION DISCLOSURE
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1. Title of Invention: liquid repellent coating

2. Inventors. Please list all individuals who made an inventive or creative contribution to the invention.

a) York Inventors (if there are more than 4 inventors, please use additional pages):

Surname & Given Name	Department (If you are cross appointed list the department where the inventive work took place)	Affiliation with York (i.e. faculty, research assoc., post-doc, student, staff etc.)	Employee/ Student Number	Percent of Inventive Contribution	Home Address Phone Email
Amirfazli, Alidad	Mech Eng	Faculty member	102077134	50%	76 Shallmar Blvd. Toronto, ON, M6C 2J9 Alidad2@yorku.ca
Seyed-Amirhossein Seyed-Mehdi	Mech Eng	Postdoc/Associate Researcher	102087448	50%	Suite# 1206, 7165 Yonge St. Thornhill, ON, L3T0C9 amirhossein54@gmail.com

b) External Inventors. Please provide names and affiliations of non-York inventors i.e. sponsor employees, academic collaborators, etc. (Please use additional pages if necessary):

SURNAME & GIVEN NAME	ORGANIZATION	PERCENT OF INVENTIVE CONTRIBUTION	HOME ADDRESS PHONE EMAIL
N/A			

DATE RECEIVED: _____ (For VPRI use only) IYID: _____