zNano Biomimetic Coatings

Affordable, Sustainable, High Quality Water... & Separations

zNano Water Filtration Systems
Biomimetic Membrane Coatings

**Biomimetic Coating Design Features**

- Biomimetic Self Assembly Chemistry
- Silica – Organic crystal structure using
- Low Tortuosity
- High Porosity
- High Surface charge density
  - Based on stoichiometry
Biomimetic Membrane Coatings:
Production 10,000 sq meters on a Specialty Membrane

<table>
<thead>
<tr>
<th># Rolls</th>
<th># of Sq. Meters per Roll</th>
<th>Water Permeability Ratio</th>
<th>App Flux Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example Production Run: Specialty Membrane</td>
<td>21</td>
<td>2100</td>
<td>1.6 +/- 0.24</td>
</tr>
</tbody>
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Biomimetic Membrane Coatings: Durability
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zNano coating durability test
30 Seconds January 2018
zNano Advance Water Recycling Technology: Awards & Collaborators

Awards

Products & Services

Advanced Water Recycling Plants
Advanced Water Treatment Feasibly Studies. *Examples Available*

Water Treatment Plant Monitoring
Water Treatment Plant Service

Water Treatment Plant Components

Next Gen Development

Contact

Adrian Brozell, PhD Founder and CEO
zNano, LLC
Adrian.Brozell@znanosys.com
www.znanosys.com
2381 Zanker Rd 130
San Jose, CA 95131
408 206 6913