Your Partner for Wastewater Infrastructure Protection
The Owner’s Problem: Biogenic Corrosion

When the right conditions exist in a sewer system, Acidophilic® bacteria feed on sulfur from H₂S gas and release sulfuric acid that corrodes concrete, mortar, steel, and ductile iron. In the most severe cases, bacterial activity can destroy up to 1 inch (25 mm) of concrete per year.

Biogenic Corrosion Principles

The SewperCoat® Solution:
the only proven 100% calcium aluminate mortar

Why is SewperCoat® superior? It’s simple, the right chemistry…

SewperCoat®’s outstanding durability in the most severe sewer environments relies on the unique “bacterio-static effect” of calcium aluminates. The metabolism of acid-generating bacteria is inhibited on calcium aluminate surfaces, thus maintaining a pH level above 3.

The unique SewperCoat® equation:
- much less bacterial activity,
- much less sulphuric acid production,
- much less corrosion damage,

... it’s that simple!

SewperCoat® provides the Owner with following key benefits:
- Easy monolithic installation
- Readily adheres to damp concrete surfaces
- High early strength/High abrasion resistance
- Restores structural integrity
- Rock solid barrier to infiltration
- Economical to apply, and cost effective in the long run
- Lasts for generations
- Supports sustainable development
- Backed by a no-nonsense 10-year labor and materials warranty

*Acidophilic describes bacterial strains that develop best in acidic conditions. Thiobacillus Thiooxidans generates its own sulfuric acid to maintain its environment to a pH close to 1 on conventional surfaces.

“FROM MICROSCOPIC BACTERIA… …COME BIG PROBLEMS”
The ease of a cementitious mortar...  
... with unequalled durability!

<table>
<thead>
<tr>
<th>Feature</th>
<th>SewerCoat®</th>
<th>Inert materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost</td>
<td>$</td>
<td>$$$</td>
</tr>
<tr>
<td>Inhibits bacterial activity</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Neutralizes sulfuric acid</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Completely moisture tolerant</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Restores structural integrity</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Multi-component formulation for rehab installations</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>May require an underlayment</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>Subject to holidays and pin-holes</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>May contain volatile organic compounds (VOCs)</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>Requires elaborate spark testing to ensure proper installation</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>NFPA rating according to Health</td>
<td>0</td>
<td>2-3</td>
</tr>
<tr>
<td>published MSDS</td>
<td>Fire Hazard</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Reactivity</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0-1</td>
</tr>
</tbody>
</table>

SewerCoat® is utilized in Sweden’s colder climates, where biogenic corrosion also occurs.

SewerCoat® is commonly used to protect new and existing wastewater structures in Texas.

Thousands of manholes have been repaired with SewerCoat® in Florida alone.

Lift stations and wet wells are routinely protected with SewerCoat®.

The harsh Middle East climate calls for SewerCoat® with junction chamber and manhole installations since 1996.

Discharge chambers rely on SewerCoat® to last beyond the planned service life.

SewerCoat® is used throughout Australia and New Zealand to protect and extend the life of trunk lines, manholes, wet wells, etc...

SewerCoat® is utilized in California’s wet climate and biogenic corrosion.

SewerCoat® is utilized in Florida’s wet climate and biogenic corrosion.

SewerCoat® is utilized in Australia and New Zealand’s wet climate and biogenic corrosion.

SewerCoat® is utilized in Singapore’s wet climate and biogenic corrosion.

SewerCoat® is utilized in Sweden’s cold climate and biogenic corrosion.

SewerCoat® is utilized in the Middle East’s desert climate and biogenic corrosion.

SewerCoat® is utilized in California’s wet climate and biogenic corrosion.

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