



Self-Healing Technologies for Coatings

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Problem

Coating failure = Corrosion

- Microscopic cracks
- Macroscopic damage

Current “Solutions”

- Anticorrosive additives
- No healing!

Recoating, Repair, Replacement

 **\$ 276 Billion***



*Source: CC Technologies and NACE (direct costs) US only

Solution

AMI self-healing coatings additives:

- Prevent microscopic cracks from growing
- Heal macroscopic damage before corrosion begins

Major problem & expense averted:

AUTOMATICALLY



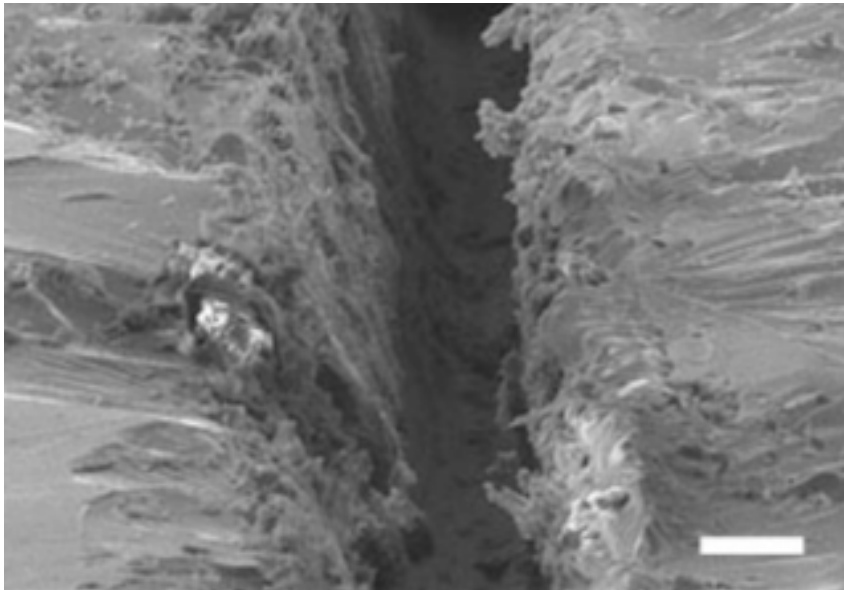
How it works



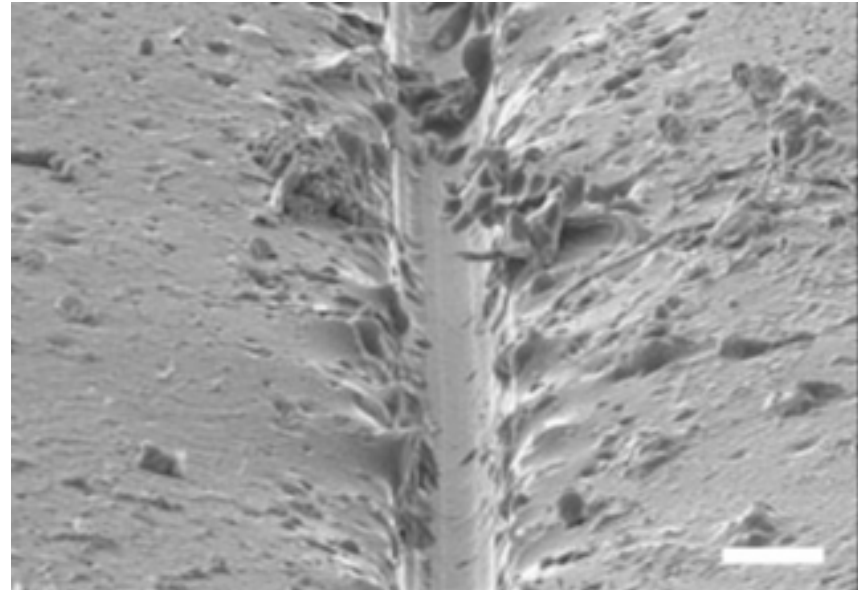
Damage is repaired automatically
Performance is improved
Lifetime is extended

Self-Healing Demo

Control



With AMI Additives



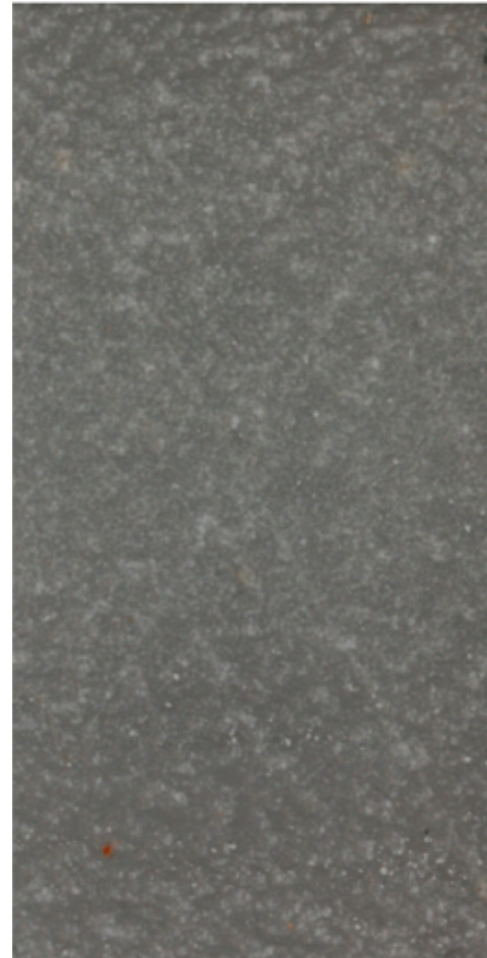
Coating: Epoxy Vinyl Ester

Visual Value Proposition

**Without
AMI**



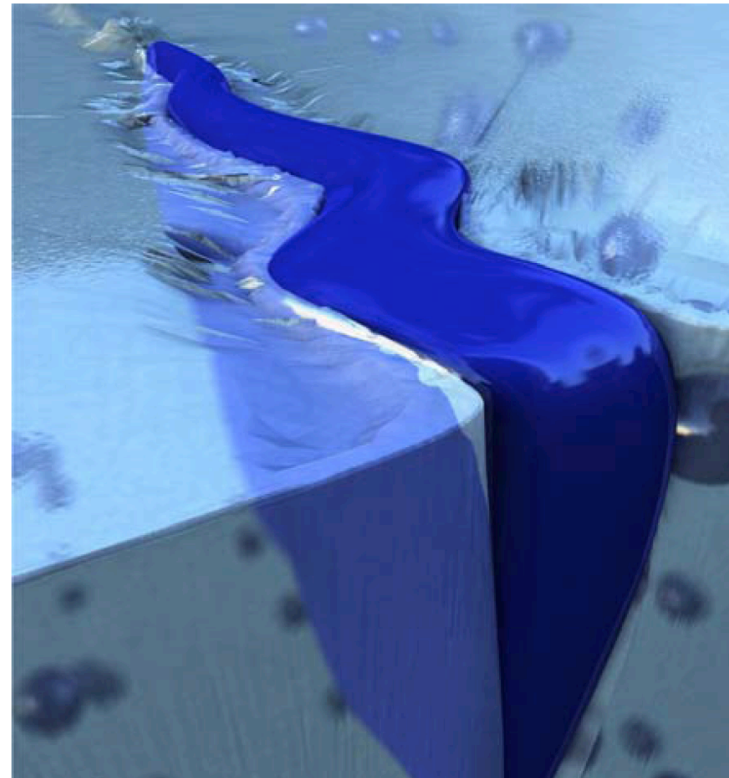
**With
AMI
Additives**



Polyurethane coating protected by AMI Series 1 after 120 hours of salt fog testing (ASTM B117)

Technology Features

- Patented
- Extendable
- Compatible
- Customizable
- Robust
- Convenient



The Coatings Market

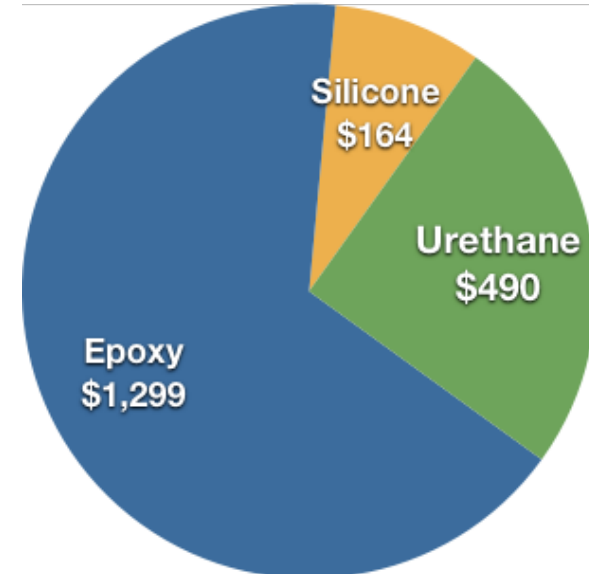
Total US Coatings Market = \$22.9 Billion

OEM/Special Purpose = \$13.7 Billion

Metal Coatings = \$ 5.5 Billion

 **High-Performance = \$ 1.9 Billion**

US High-Performance
Metal Coatings
\$ Millions



Total = \$1.9 Billion

Early Product Applications

- Marine
- Infrastructure
- OEM
- Oil and Gas
- Utilities
- Consumer
- Military
- Water Treatment



Business Development

Excellent Market Response

Partner 1 – Global Coatings Producer

Consumer brand and other apps

Partner 2 – European Coatings Producer

Marine applications

Partner 3 – Large US Coatings Producer

High-Performance Industrial applications

Operating Team and Advisors

Larry Evans, CEO

- Former President DSM NeoSol, DSM NeoResins, Image Polymers
- 20+ years international coatings market experience
- Expertise: higher-growth businesses with strong innovation
- Focus: high-performance, high-margin coatings additives

Dr. Gerald Wilson, Technology Platform Manager

- Expert in self-healing technology—spent 5 yrs at AMMSG developing self-healing systems

Dr. Magnus Andersson, Technical Marketing Manager

- Expert in self-healing systems—5 yrs co-development work with Professor White

Scientific Advisory Board: AMMSG

- Professors Scott White, Jeffrey Moore, Nancy Sottos and Paul Braun

Financial Projection

\$Millions - USD

	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
Revenues	\$0.0	\$1.1	\$5.7	\$20.7	\$37.4	\$54.0	\$70.7
COGS	\$0.0	\$1.0	\$4.4	\$12.4	\$22.4	\$32.4	\$42.4
Gross Margin	\$0.0	\$0.2	\$1.3	\$8.3	\$14.9	\$21.6	\$28.3
Expenses	<u>\$1.2</u>	<u>\$2.0</u>	<u>\$2.7</u>	<u>\$5.0</u>	<u>\$8.0</u>	<u>\$11.0</u>	<u>\$14.0</u>
EBIT	-\$1.2	-\$1.9	-\$1.4	\$3.3	\$6.9	\$10.6	\$14.3
Year-End Headcount	5	9	12	16	19	22	25

Summary

- Breakthrough self-healing additives
- Versatile, platform technology
- Strong Team
- Customers evaluating
- Raising \$5 Million Series B

Thank You

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