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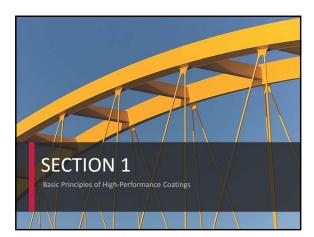
Course Overview

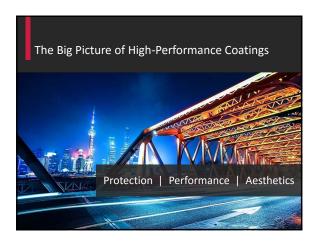
This CEU will increase your general awareness of not only what highperformance coatings are and where they are used, but also to introduce factors that influence performance, service life, and selection.

Learning Objectives

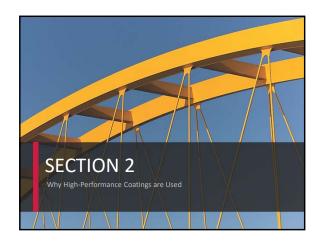
Upon completing this course, you should be able to:

- Explain the purpose and common applications of highperformance coatings
- Explain how high-performance coatings help control corrosion
- Describe the benefits of a three coat system
- Identify the factors that influence the coating system selection





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3	





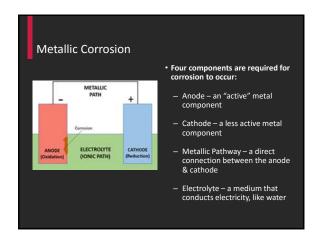
Why High-Performance Coatings are used?

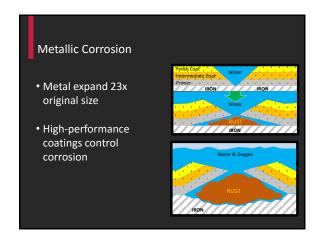
- Protect substrate from corrosion
- Provide resistance to chemical and abrasion
- Ensure durability and safety
- Improve appearance

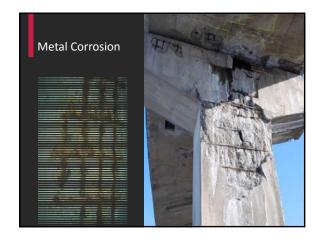


What is Corrosion?

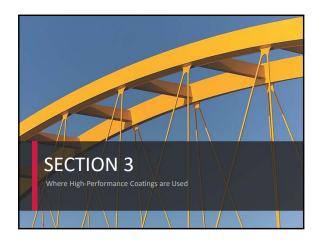
Corrosion is the deterioration of a material (primarily metals)

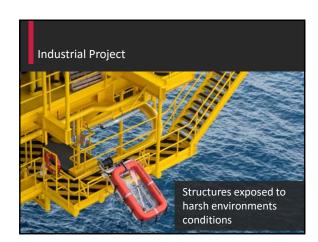




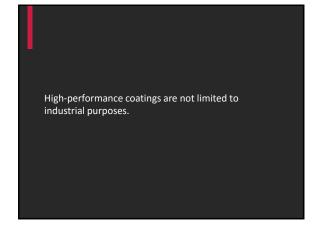


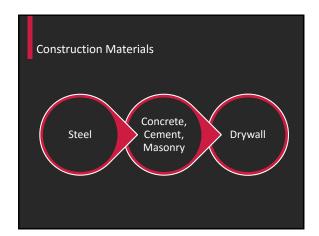
Corrosion Rate • Several factors influence Corrosion - Chemicals - Temperature - Moisture - Substrate Design	
Polling Question	
High-Performance Coatings: Corrosion Control Barrier between substrate and water Insulates the substrate from contact with soil Protects substrate from contact with chemicals	

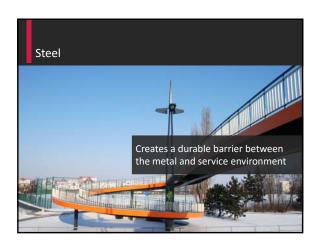


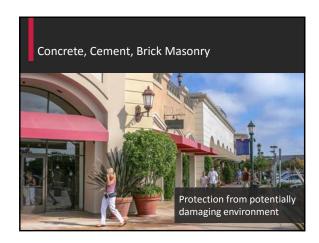


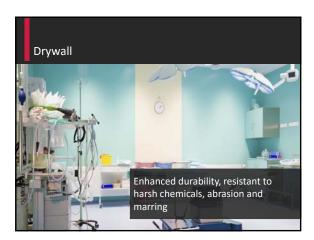








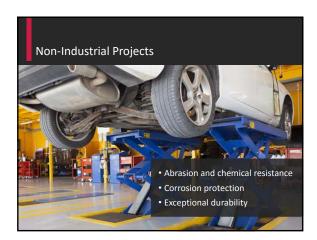


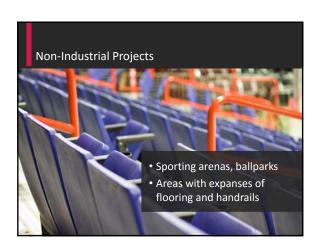


What other types of spaces and structures require exceptional durability?

--Enter responses in the question box--









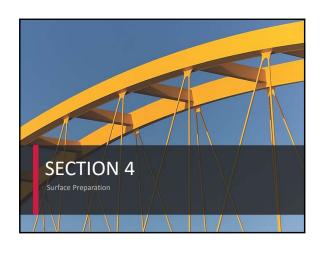
Warehouse and Distribution Centers

- Wear and tear of construction equipment
- Heavy machinery
- Lift tires, oil fuel, material spills

Building Maintenance & Facilities Room

- Tanks and pipes
- Color-coding

Polling Question



Surface preparation is a result not a process.

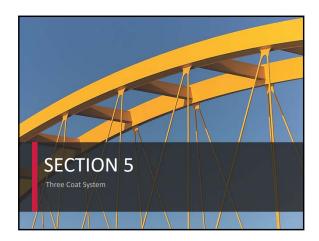


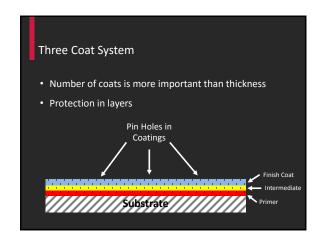
Surface Preparation

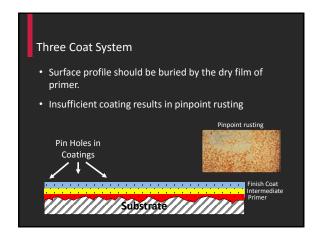
90% of premature coating failures are a result of improper surface preparation

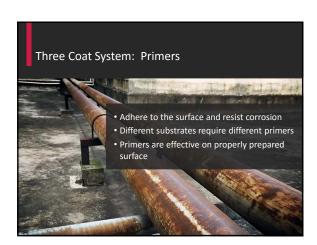










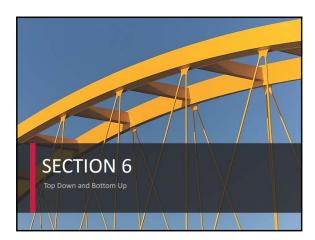


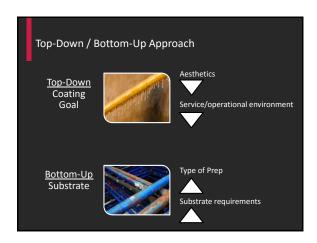




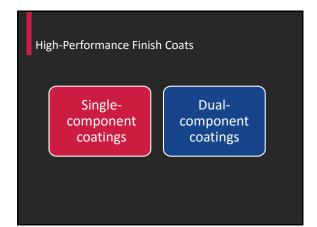
Paint Thickness in measured in Mils? True or False --Enter response in question box--

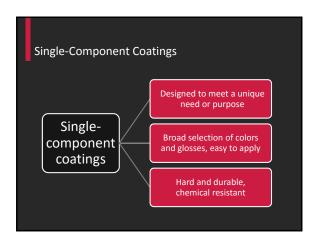
Polling Question

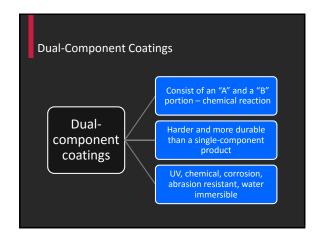














Environmental & Operations Conditions
Interior and exterior spaces
Interior spaces: heat, high humidity, and particulate matter
Exterior spaces: freeze-thaw conditions, heat and humidity, UV exposure, salt

Environmental & Operations Conditions • Environmental conditions	
Healthy indoor environments for occupants Occupied spaces vs. new construction	
Complete spaces 13. Hell construction	
Factors that Influence the Choice of	
High-Performance Coating System	
Anticipated use and exposure	
✓ Service environment	
✓ Expected exposure✓ Job type	
✓ Substrate type	
✓ Surface Preparation	-
✓ Budget	
✓ Customer Expectations	
Standards and Specialists	
• Rely on standards and specialists	
 Applications and surface preparation standards can mitigate confusion 	
 Coating manufacturers are a valuable resource 	
 With guidance, projects can be done properly 	

		l		
Do onviro	onmental conditions			
	y to exterior spaces?	_		
		_		
Т	rue or False			
Enter re	sponse in question box			
		_		
Summary				
At first glance, the wo	orld of high-performance coatings may		 	
understanding these	g. But a good starting point for coatings is to recognize that the same mance coatings provide for large-scale	_		
industrial projects ca	n be applied to non-industrial projects.			
needed or required s	durability, safety, and longevity are specify a high-performance coating ngs are designed specifically to protect	_		
	nicals, abrasion, and corrosion, and	_		
		1		
Thank You		_		
	Thank you for your interest in high- performance coating systems. This concludes the American Institute of	_		
A Benjamin Moore	Architects Continuing Education Systems and IDCEC Course.	_		
	www.benjaminmoore.com			

Benjamin Moore Corotech® High-Performance Coatings	COROTECH		MERCIAL AND JSTRIAL COATINGS
	G		WATERSORNE EPOXY BLOCK FILLER (YHS) Seals and protects brick, macony and onder block for repeated cleaning
Coating systems for all industrial maintanance and	ō	17	PRE-CATALYZED WATERBORNE WALL EPORY (V340/342 SERIES) Tough epony with no mixing needed, for high-traffic interior walls.
industrial, maintenance and commercial applications.	3		ALKYD LIBETHANE ENAMEL (V200,/201 SERIE 5) Ename with a smooth, tough finish for most interior and exterior surfaces.
Corotech Coatings will	0		Universal, METAL PRIMER (VER) Quick-dry primer that protects steel and iron from corrosion.
deliver lasting protection and performance for any	T		WATERSORNE AHINE EPOXY (V440) Easy application and rugged protection for concrete flooring
environment.	E		ZINC RICH PRIMER (VID) Heavy-duty compsion protection for steel surfaces.
State of the art performance and corrosion protection	E .		ACRYLIC OTH ENAMEL CV330/331 SERIES) Drect-to-meta protection, versatile enough for concrets and wood.
and corrosion protection	H		ALIPHATIC ACRYLIC URETHANE CV500/510 SERIES) Outlanding gloss and opboretention for extentor surfaces.
www.benjaminmoore.com www.corotechcoatings.ca	Telegraphon the entire arethrees and other	portfolio of Con or products, stat	for exterior surfaces. each high parformance primare, example, species, benjambanes com or call 1 866 700 990.

To locate a Benjamin Moore Architectural & Design Rep in your area:

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Questions

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Resources			
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NACE International. www.nace.org			
National Paint & Coatings Association. www.paint.org			
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