

▶ Annual
Corrosion
Forum (ACF)

▶ Aberdeen Branch - August 2021



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Title: Coatings – The 1st line of defense against corrosion



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Coatings – the 1st line of defense against Corrosion

STUART RENNIE

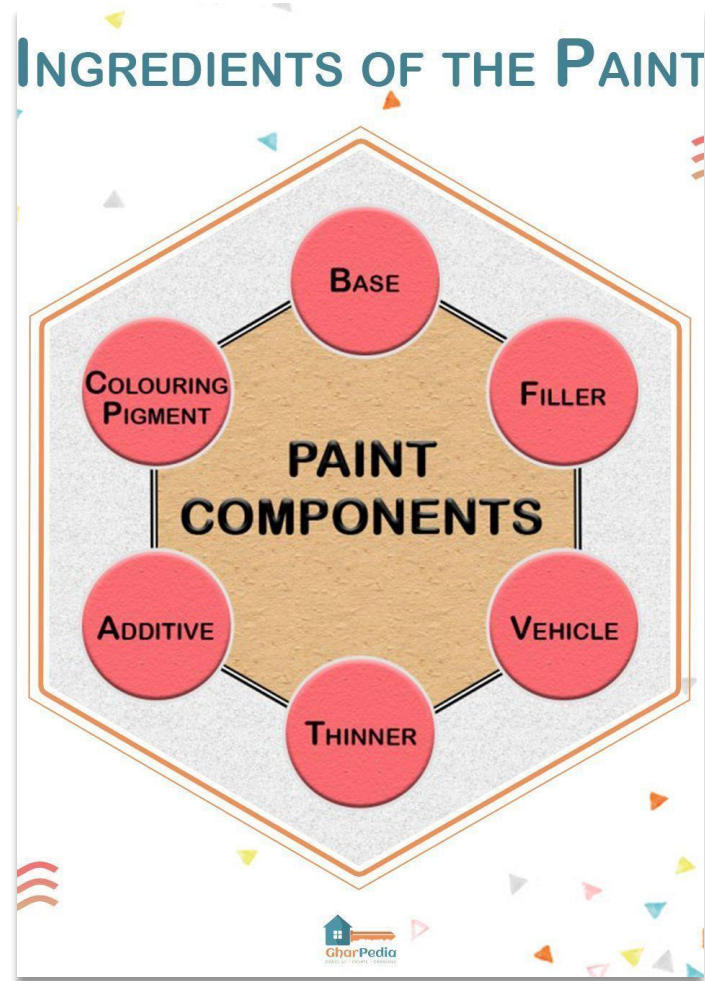
COMMERCIAL MANAGER

PRESSERV GROUP

Fact:

The total annual U.S. cost for organic and metallic protective coatings is **\$108.6 billion**, according to a NACE study. The study estimates that **50%** of all corrosion costs are preventable, and approximately **85%** of these are in the area of coatings.





Basic Components of a Coating

Material Selection

- ▶ The critical considerations for material selection are:
 - ▶ Lifetime cost including maintenance
 - ▶ Mechanical characteristics
 - ▶ Supply logistics
 - ▶ Ease of application
 - ▶ Suitability to environment
 - ▶ HSE
 - ▶ Tolerance to surface
 - ▶ Climatic conditions



Different types of industrial coatings

Different types of industrial coatings have different chemical and physical properties —corrosion resistance, performance when exposed to UV, etc.— but no coating provides all the protection a structure needs. That's why assets are coated with one or more coating types to form a total protective coating system



Top 4 Generic Coatings

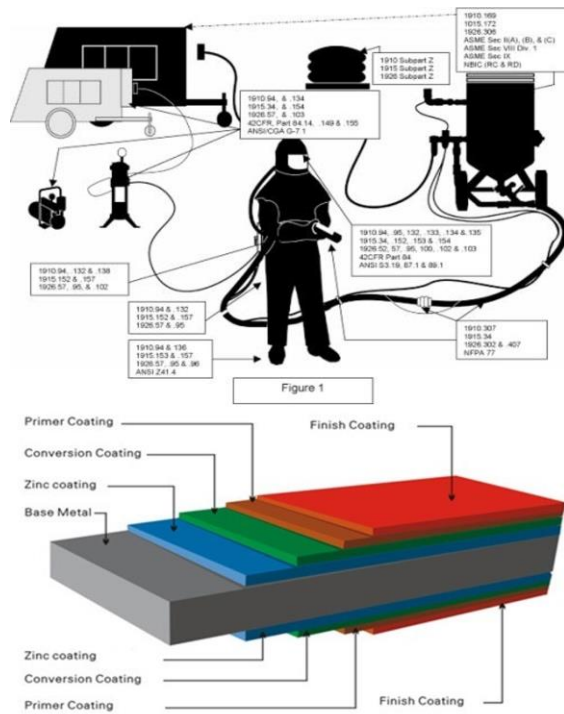
- ▶ Epoxies
- ▶ Polyurethanes
- ▶ Polysiloxanes
- ▶ Organic and Inorganic zinc rich

Typical Applications for Marine Environment Coatings

- Splash zones
- Subsea
- Process pipework
- Structural steelwork
- Risers
- Decks, handrails
- HT applications, (flare stacks, exhausts)



Moving towards Nett Zero



In summary...

- ✓ BALANCE MATERIAL SELECTION WITH ENVIRONMENTAL CONDITIONS
- ✓ FULFIL CORROSION MITIGATION OBJECTIVES
- ✓ COMPATIBILITY WITH SURFACE PREPARATION REQUIREMENTS
- ✓ LONGEVITY



End of Presentation – Your Questions Please