

Polyester and Vinyl Ester Coatings

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Polyester and vinyl ester resin-based linings are known for their solvent and chemical resistance. The different resins in these linings have broad resistance ranges, with acid resistance being a major strength. Some of the specific resins resist 1 or more chemicals or types of chemicals better than other resins, so systems often are fine-tuned by the choice of resin for a particular chemical environment.

Esters are the reaction product of an organic acid and an alcohol. Polymers used in this class of materials are the unsaturated polyesters formed by reaction of unsaturated dibasic acids and dihydric alcohols. Styrene or a similar vinyl-type monomer is used to cross-link the resin and form the film. The polymerization is initiated by a catalyst, with the reaction by free radical addition, which is a chemical reaction mechanism unique to this class of coatings.

The word "lining" in the coatings industry is commonly defined as a material used to protect the inside surface of a tank, vessel, or similar structure from highly corrosive or potentially highly corrosive exposures. Linings can be monolithic systems or built-up systems. Because of their typically thick application and use in severe chemical conditions, polyesters and vinyl esters normally are referred to as linings. They offer good adhesion to most substrates, although most applications are on steel or concrete.

These linings include several systems varying in thickness, type of

Table 1
Properties of Lining Fillers and Reinforcements

Silica Fillers	Most used, good permeation resistance, low cost
Carbon Fillers	Electrical conductivity or fluoride resistance
Hard Mineral Fillers	Increased abrasion resistance
Fiberglass Chopped Mat	Good chemical resistance
Fiberglass Woven Cloth	Strong, bidirectional reinforcement
Fiberglass "C" Grade Veil	Best chemical resistance
Synthetic Reinforcements	Where fluorides would attack glass
Glass Flakes	Best permeation resistance when aligned
Mica Flakes	Good permeation and chemical resistance

Tables courtesy of the author

fillers and reinforcement, and application method. For each lining system, various polyester and vinyl ester resin bases are used to achieve the desired chemical resistance.

History of Development

Since the 1960s, polyester and vinyl ester linings have been used extensively for their high chemical resistance. They previously had been used in mortars for chemical-resistant brick linings and fiberglass-reinforced plastic (FRP) structures such as tanks, pipes, and ducts, so their use in protective linings is a natural extension of their broad chemical resistance properties.

Early linings were reinforced with chopped fiberglass strands or woven fiberglass cloth (woven roving). Silica and other particulate fillers were incorporated to enhance physical

properties and minimize curing shrinkage, the release of heat after mixing, and a high coefficient of thermal expansion compared to the substrate. These linings were applied by trowel and roller up to 1/4 in. (6 mm) thick.

As these linings were developed, flake fillers were added to increase resistance to permeation by water vapor. This property is important for immersion or wet service at elevated temperatures. Glass and mica flakes were used to extend the service temperatures of the linings in hot, aqueous environments. This type of lining can withstand immersion temperatures of 180 to 212 F (82 to 100 C) at thicknesses of 60 to 150 mils (1.5 to 3.8 mm).

Thinner, spray-applied systems were formulated to reduce material cost and increase application rate.

Polyester And Vinyl Ester Coatings Paintsquare

Daniel F McAuley



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Table of Contents Polyester And Vinyl Ester Coatings Paintsquare

1. Understanding the eBook Polyester And Vinyl Ester Coatings Paintsquare
 - The Rise of Digital Reading Polyester And Vinyl Ester Coatings Paintsquare
 - Advantages of eBooks Over Traditional Books
2. Identifying Polyester And Vinyl Ester Coatings Paintsquare
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Polyester And Vinyl Ester Coatings Paintsquare
 - User-Friendly Interface
4. Exploring eBook Recommendations from Polyester And Vinyl Ester Coatings Paintsquare
 - Personalized Recommendations
 - Polyester And Vinyl Ester Coatings Paintsquare User Reviews and Ratings
 - Polyester And Vinyl Ester Coatings Paintsquare and Bestseller Lists
5. Accessing Polyester And Vinyl Ester Coatings Paintsquare Free and Paid eBooks
 - Polyester And Vinyl Ester Coatings Paintsquare Public Domain eBooks
 - Polyester And Vinyl Ester Coatings Paintsquare eBook Subscription Services
 - Polyester And Vinyl Ester Coatings Paintsquare Budget-Friendly Options
6. Navigating Polyester And Vinyl Ester Coatings Paintsquare eBook Formats

- ePub, PDF, MOBI, and More
- Polyester And Vinyl Ester Coatings Paintsquare Compatibility with Devices
- Polyester And Vinyl Ester Coatings Paintsquare Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Polyester And Vinyl Ester Coatings Paintsquare
 - Highlighting and Note-Taking Polyester And Vinyl Ester Coatings Paintsquare
 - Interactive Elements Polyester And Vinyl Ester Coatings Paintsquare
- 8. Staying Engaged with Polyester And Vinyl Ester Coatings Paintsquare
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Polyester And Vinyl Ester Coatings Paintsquare
- 9. Balancing eBooks and Physical Books Polyester And Vinyl Ester Coatings Paintsquare
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Polyester And Vinyl Ester Coatings Paintsquare
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Polyester And Vinyl Ester Coatings Paintsquare
 - Setting Reading Goals Polyester And Vinyl Ester Coatings Paintsquare
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Polyester And Vinyl Ester Coatings Paintsquare
 - Fact-Checking eBook Content of Polyester And Vinyl Ester Coatings Paintsquare
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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