

EX-Series® Resin Selection Guide



When choosing a resin type for your application, we highly recommend you consult us to ensure that the correct resin is specified. Considerations such as corrosion, environment, temperature, fire resistance, smoke and smoke toxicity requirements must be taken into account, and will dictate which resin system should be utilised for optimum performance over time.

Below is an overview of the resin systems offered in the Access Systems Range.

Options Overview

O-Series™ is an architectural grade polyester resin system with an intermediate level of chemical resistance, and is a good choice for commercial or light industrial applications, especially where moisture is prevalent. O-Series™ is often utilised for public infrastructure applications where it has been proven to outperform traditional timber decking products. This system is manufactured with fire retardant additives.

I-Series™ is a premium isophthalic resin system. This system provides an intermediate level of chemical resistance and is the correct choice for areas subjected to splash and spill contact with harsh chemicals. This system is an excellent general-purpose resin and is a more favourably priced alternative to the vinyl ester system. This system has a flame spread of 25 (Approximately 15) or less.

V-Series™ is a vinyl ester resin system that provides the highest chemical resistance offered in the industry and has been developed for use in environments where FRP products are subject to frequent and direct contact with the harshest of chemicals including a broad range of acids and caustics. This system has a flame spread of 25 (Approximately 15) or less.

P-Series™ is a phenolic resin system that is designed specifically for use where fire resistance, low smoke and low toxic fumes are critical. P-Series™ is typically used in offshore applications and confined spaces where such criteria are an absolute necessity. This system is tested in accordance to ASTM E-84. Various products also conforming to US Coast Guard Approvals, Level 2 and 3, are also offered by Treadwell. This particular resin system has a flame spread rating of 5 and a smoke density rating of 5.

EX-Series® Resin Systems Comparison Chart

	Chemical Resistance	Fire Retardance	Low Smoke	Halogen Free	Temperature Performance
O-Series Polyester	● ● ●	● ● ● ●	—	—	● ● ●
I-Series Isophthalic	● ● ● ● ●	● ● ● ● ●	—	—	● ● ● ●
V-Series Vinylester	● ● ● ● ●	● ● ● ● ●	—	—	● ● ● ● ●
P-Series Phenolic	● ● ● ●	● ● ● ● ●	● ● ● ●	● ● ● ● ●	● ● ● ● ●