



## Environmentally Responsible Pearson Composite Pilings

Pearson Pilings are completely environmentally benign – even our manufacturing methods use the lowest V.O.C resins available. There is extremely low water vapor transmission, very low moisture absorption and no solubility in water in any of the materials that make up our composite piles. The resin used in our pilings complies with FDA regulation 21 CFR 177.2420, covering materials intended for repeated use in contact with food. Pearson pilings require relatively low energy during manufacture compared with metal or concrete piles; it has much lower thermal conductivity and is much more durable. Furthermore, the increase in the number of marine borers and the environmental laws that limit the use of toxic treatments for wood have resulted in higher costs of replacement and shorter life span of the conventional materials.

One of our primary criteria in the development of our piles is that they must be inert and unaffected **by** the environment – and that they have no deleterious affect **on** the environment. Since the pilings are inert, marine growth and biodiversity are not affected in any way, except that growth can be scraped from the piles relatively easily (but barnacles will be difficult to remove if left for any length of time). Of course, PEARSON PILINGS are impervious to any borers and worms!

The polymer exterior (PPT) of the piles is in the same family of polymers widely used in medical grades. The PPT is non-toxic, hydrolytically stable, self-extinguishing and impervious to diesel fuel and gasoline. We would estimate 20+ years in direct southern sunlight before the PPT exterior has some chalking – it could then be painted for cosmetics only - it will not need to be painted. Both the PPT and the resin are UV stable with the PPT showing no color shift for 2000 hrs. in a quv.

We have Material Safety Data Sheets for the piling as a complete unit and also the two polymer materials available upon request.