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Inorganic/organic hybridized polymers for use in various high performance applications

A new resin matrix has been developed that is primarily silicone based, but also has hexacrylate alkene functionality. It reacts through aerobic redox polymerization rapidly, to provide a polymer that is chemical resistant, heat resistant, flexible, and can act as a carrier for insulation materials, which performs as sprayable insulation. This resin can also act as a new NISO product, as the level of acrylate and silicone, allow for high resistance to UV degradation and is polymerized as the process indicates above. This can also be used as a precursor for emulsion polymerization. The material can be

fed simultaneously with other monomers, protective colloids, initiators, etc. to create a water based silicone acrylate polymer. A patent has been filed, and is pending on this chemistry.

Speaker Biography

David Michael Parish Staff Scientist in Protective & Marine Division at Sherwin Williams Company Staff Scientist at Glatfelter, Chillicothe, Ohio with a demonstrated history of working in the chemicals industry. Strong research professional skilled in Materials Science, Microsoft Word, Paint, Polymers, Polymer Science and Sales Management. He is interested in new small molecule development, and polymer development where stronger understanding of molecular structure/property development relationship can be attained.

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