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The Expanding Role of Heat-Management Pigments in High-Performance Technologies

The use of pigments for heat management has been in use for many years in application that requires surface temperatures to be moderated. The same chemical principles that make certain pigments useful to keep temperatures lower on decks, handrails, and vinyl siding also make them useful in other types of applications. This paper will investigate the use of heat management pigments, especially NIR reflective and functional black pigments and dyes that are expanding in use beyond the conventional use in vinyl siding and decking to also include technologies that are adopting these pigments for performance, energy efficiency and component durability.