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Self Healing Composite Materials: A Review

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Abstract: Self-healing materials, sense the failure or damage and react autonomously to restore its structural integrity. Self healing mimicks biological systems where the body reacts to an external damage autonomously to heal the damage. Several researches have been done in the past decade identifying the healing capacity of several healing agents, its healing efficiency, the fracture toughness of the materials before and after healing. All classes of polymers, be it thermoplastics or thermosets or elastomers, have potential for self-healing. This paper focusses on bringing a short review to the readers on various types of healing processes, its uniqueness and its contribution towards the science of self healing.

Keywords: Self-healing materials, capsule based self healing, self healing chemistry, encapsulation, micro capsules, nanocapsules.

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