Shape Memory Polymer 234-100

Description

Structural Repair Patch is a fiber-reinforced composite that uses a shape memory polymer, Veriflex®, as the matrix. This allows Structural Repair Patch to easily change shape above its activation temperature. At lower temperatures, the material maintains high strength and high stiffness.

When heated, Structural Repair Patch will temporarily soften. It can then be reshaped and will harden in seconds, maintaining the new configuration. When reheated, Structural Repair Patch will return to its original cured shape. This versatility allows for structures to be stowed and then later deployed to the operational shape. Structural Repair Patch can be manufactured with a variety of fiber types and shape memory polymer formulations to fit unique applications requiring different properties.

Possible Applications

• Rapid Manufacturing
• Lightweight, deployable structures
• Composite repair patching
• Adaptable reinforcement

Features & Benefits

• Unique shape memory properties
• Strengthening fabric reinforcement
• Deforms and recovers shape repeatedly
• Transforms from rigid composite to soft elastomer
• Up to 80% elongation in elastic state
• Durable
• Machine-able

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